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Sight Reduction Tables
according to A. A. Ageton

Tables for performing Sight Reduction according to the Method developed by Arthur A. Ageton

Warning and Terms of Usage:

The following pages have been generated by a computer program. Complex computer programs usually have bugs and may produce wrong data. The data in these Tables is believed to be accurate but no warranty is given for its correctness.

Use these Tables only for training and exercising!

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Purpose and Scope

Sight Reduction is the process of solving the navigational triangle for an assumed position of the observer and the position of an observed celestial object in order to obtain a Line-of-Position. In the beginning of the 20th century, Arthur A. Ageton developed a method of solving the oblique navigational triangle by dividing it into two right-angled spherical triangles, which can be solved with less complex trigonometric operations as compared to the computations required to solve the oblique navigational triangle directly. Ageton's method for solving the right-angled spherical triangles is based on the logarithmic form of the Cosecant and Secant functions (called "A" and "B" functions respectively).

The A(x) and B(x) functions tabulated on the following pages were calculated according to:

$$A(x) = 100\,000 * \log_{10} (1/ \sin(x))$$

$$B(x) = 100\,000 * \log_{10} (1/ \cos(x))$$

The multiplication factor 100 000 is used to tabulate the functions with integral numbers, simplifying arithmetic operations with these data values.

The tables are organized in 90 subtables, each of them containing the data of one degree interval. Since the logarithmic functions A(x) and B(x) can only be used for positive values for the Sine and Cosine arguments, the table values for the supplementary angles x and 180°-x are identical. Therefore, each subtable entry is valid for two supplementary angle values. The angle values are plotted respectively on the top and bottom line of each subtable. If the top line argument is used for the integral degree value, the first column of the table must be used for the minutes value. Similar, the last column must be used in combination with the bottom line angle value.

The tables can be used to calculate the Altitude "Hc" and Azimuth "Zc" of a celestial object at an Assumed Position. Using the Altitude-Intercept Method, the calculated Altitude "Hc" and Azimuth "Zc" may be used to refine the observer's position by comparing the calculated Altitude "Hc" with the observed Altitude "Ho", which is obtained by sextant measurements.

Note on Accuracy

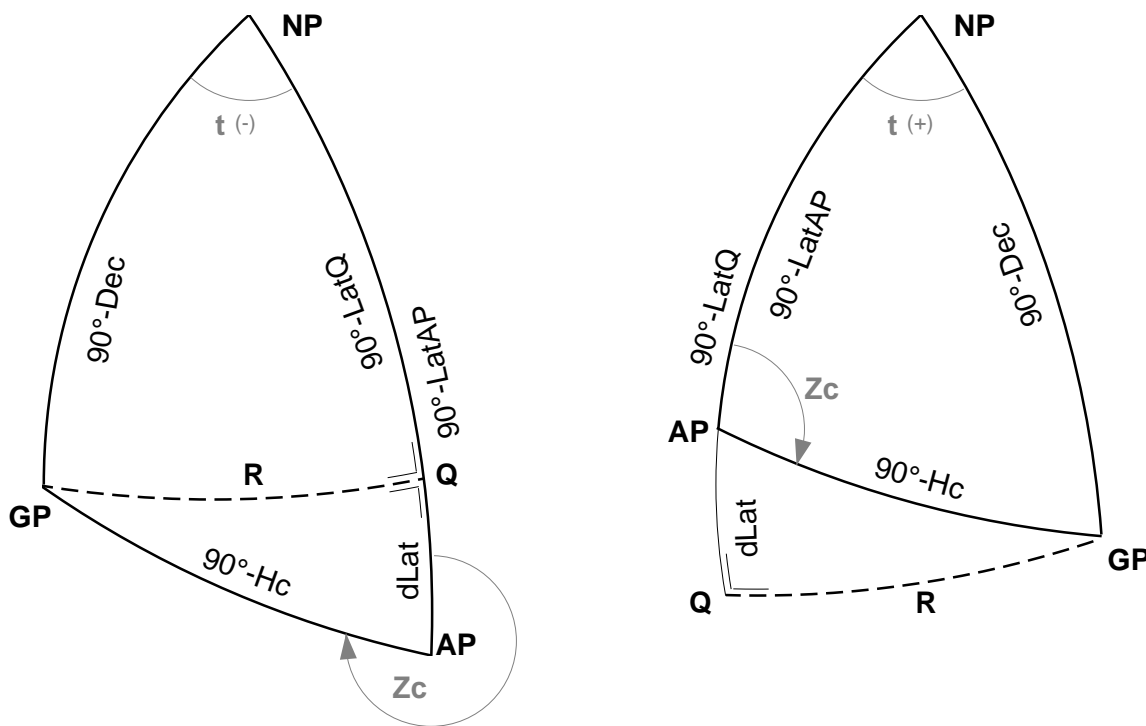
The resolution of the tabulated values for the A(x) and B(x) functions may be insufficient in the ranges [0°-3°] and [87°-90°] to obtain accurate results for the sight-reduction process. The involved table entries have been plotted on a grey-shaded background.

If these table ranges can be avoided for the complete sight-reduction process, the maximum error on the calculated Altitude "Hc" will be lower than ±2.2' (2.2 minutes-of-arc) and lower than ±0.3° for the calculated Azimuth "Zc" (provided also, the tables are used with appropriate interpolation).

For a detailed error analysis see: "<http://www.erikdeman.de/>"

The divided Navigational Triangle

The general (oblique) Navigational Triangle between the geographical North Pole (NP), the Geographical Point (GP) of the observed celestial object and the Assumed Position (AP) of the observer can be divided in two right-angled triangles by a great-circle segment "R" starting in GP and intersecting the Meridian of AP at a right angle. This defines a new triangle side "R" and a new triangle vertex point "Q". This point has the same Longitude as AP and a Latitude "LatQ".



Solving the divided Navigational Triangle

For the sight-reduction problem, the navigational triangle has to be solved to obtain the values of the Altitude "Hc" and the Azimuth "Zc" for an Assumed Position specified by: assumed Latitude (LatAP) and assumed Longitude (LonAP) and the celestial coordinates of the observed body: Declination (Dec) and Greenwich Hour Angle (GHA). Ageton's method of solving the navigational triangle, introduces two additional values to be solved: the Latitude of the vertex point "Q" (LatQ) and the length of the side "R".

Altitude "Hc" and Azimuth "Zc" are obtained through the following steps:

$$\begin{aligned} \text{LHA} &= \text{GHA} + \text{LonAP} & t &= \begin{cases} - \text{LHA} & \text{if LHA} < 180^\circ \\ 360^\circ - \text{LHA} & \text{if LHA} > 180^\circ \end{cases} \end{aligned}$$

Solve the sides of the first right-angled triangle (Law of Sines and Law of Cosines for Sides):

$$\begin{aligned} \sin(R) &= \sin(t) * \cos(\text{Dec}) \\ \sin(\text{LatQ}) &= \sin(\text{Dec}) / \cos(R) \end{aligned}$$

Solve the second right-angled triangle for Hc and Zc (Law of Sines and Law of Cosines for Sides):

$$\begin{aligned} \text{dLat} &= \text{LatAP} - \text{LatQ} \\ \sin(\text{Hc}) &= \cos(R) * \cos(\text{dLat}) \\ \sin(Z) &= \sin(R) / \cos(\text{Hc}) \end{aligned}$$

If the North Pole is systematically used as reference pole (even if the elevated pole is the South Pole), the true Azimuth Zc is obtained from Z through the following rule:

$$\begin{aligned} \text{Zc} &= Z & \text{if LHA} < 180^\circ \\ \text{Zc} &= 360^\circ - Z & \text{if LHA} > 180^\circ \end{aligned}$$

Sight Reduction on the divided Navigational Triangle

For performing the process of Sight Reduction using the tables on the next pages, the following scheme may be used for calculating the Altitude "Hc" and true Azimuth "Zc" of a celestial object at an arbitrary Assumed Position:

			Remarks
AP:	LatAP = ±__°__'__ (N/S) LonAP = ±__°__'__ (E/W)	GP: Dec = ±__°__'__ (N/S) GHA = __°__'__	(0)
1.	LHA = GHA + LonAP = __°__'__ t = - LHA = ±__°__'__ t = 360° - LHA = ±__°__'__ A(t) = _____	if(LHA < 180°) if(LHA > 180°)	(1)
2.	A(Dec) = _____	B(Dec) = _____	
3.	A(R) = A(t) + B(Dec) = _____ + _____ = _____ R = __°__'__	B(R) = _____	
4.	A(LatQ) = A(Dec) - B(R) = _____ - _____ = _____ LatQ = ±__°__'__ (N/S)		(4)
5.	dLat = LatAP - LatQ = ±__°__'__ - ±__°__'__ = ±__°__'__ B(dLat) = _____		(5)
6.	A(Hc) = B(R) + B(dLat) = _____ + _____ = _____ Hc = __°__'__	B(Hc) = _____	
7.	A(Z) = A(R) - B(Hc) = _____ - _____ = _____ Z = __°__'__		(7)
8.	Zc = __°__'__		(8)

Remarks and Instructions

- (0) Use the appropriate signs for Latitude, Longitude and Delination: positive for N and E, negative for S and W.
- (1) The meridian angle "t" is calculated from "LHA" according to the following rule:
if LHA < 180° t = - LHA
if LHA > 180° t = 360° - LHA
- (4) The sign of the Latitude of "Q" (N/S) depends on the values of "t" and "Dec":
if |t| < 90° LatQ has the same sign as Dec
if |t| > 90° LatQ has the contrary sign of Dec
Where |t| is the absolute value of "t"
- (5) The value of "dLat" must be calculated taking the correct signs for "LatAP" and "LatQ" into account. The resulting sign of "dLat" should be recorded correctly (see remark 7).
- (7) Select one out of four cases, depending on the value of "|t|" and the sign of "dLat" to determine how to select the value of "Z" from the Tables:
- | | | | |
|------|----------|----------|----------------|
| t | t < 90° | t > 90° | |
| dLat | - | + | |
| Z | < 90° | > 90° | > 90° < 90° |
- if Z < 90° select Z from the top line - left column of the Table
if Z > 90° select Z from the bottom line - right column of the Table
- (8) The true Azimuth "Zc" is obtained from "Z" depending on the sign of "t":
if t > 0 Zc = Z (GP is East of AP)
if t < 0 Zc = 360° - Z (GP is West of AP)

0°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	-	0	253627	0	223525	1	205916	2	193422	3	183732	5	10.0
00.5	383730	0	251509	0	222452	1	205198	2	192883	3	183300	5	09.5
01.0	353627	0	249488	0	221406	1	204492	2	192350	3	182872	5	09.0
01.5	336018	0	247558	0	220384	1	203797	2	191824	3	182448	5	08.5
02.0	323524	0	245709	0	219385	1	203113	2	191304	3	182029	5	08.0
02.5	313833	0	243936	0	218409	1	202440	2	190790	3	181613	5	07.5
03.0	305915	0	242233	0	217455	1	201777	2	190282	3	181202	5	07.0
03.5	299221	0	240594	0	216521	1	201124	2	189780	3	180794	5	06.5
04.0	293421	0	239015	0	215607	1	200480	2	189283	4	180390	5	06.0
04.5	288306	0	237491	0	214711	1	199846	2	188793	4	179990	5	05.5
05.0	283730	0	236018	0	213834	1	199221	2	188307	4	179593	6	05.0
05.5	279591	0	234594	0	212974	1	198605	2	187828	4	179200	6	04.5
06.0	275812	0	233216	0	212130	1	197998	2	187353	4	178811	6	04.0
06.5	272336	0	231879	1	211303	1	197399	2	186883	4	178424	6	03.5
07.0	269118	0	230583	1	210491	1	196808	3	186419	4	178042	6	03.0
07.5	266121	0	229324	1	209695	1	196225	3	185959	4	177663	6	02.5
08.0	263318	0	228100	1	208912	1	195650	3	185505	4	177287	6	02.0
08.5	260686	0	226910	1	208143	1	195082	3	185055	4	176914	6	01.5
09.0	258203	0	225752	1	207388	2	194522	3	184609	4	176544	6	01.0
09.5	255855	0	224624	1	206646	2	193969	3	184168	5	176178	7	00.5
10.0	253627	0	223525	1	205916	2	193422	3	183732	5	175814	7	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

179°

1°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	175814	7	169121	9	163322	12	158208	15	153634	18	149496	22	10.0
00.5	175454	7	168812	9	163052	12	157968	15	153417	19	149299	22	09.5
01.0	175097	7	168505	9	162783	12	157728	15	153201	19	149103	23	09.0
01.5	174742	7	168200	9	162516	12	157490	15	152987	19	148908	23	08.5
02.0	174391	7	167897	10	162250	12	157254	16	152774	19	148713	23	08.0
02.5	174042	7	167597	10	161986	13	157018	16	152561	19	148520	23	07.5
03.0	173696	7	167298	10	161724	13	156784	16	152350	19	148327	23	07.0
03.5	173352	7	167002	10	161463	13	156552	16	152140	20	148136	24	06.5
04.0	173012	8	166708	10	161204	13	156320	16	151931	20	147945	24	06.0
04.5	172674	8	166415	10	160946	13	156090	16	151722	20	147755	24	05.5
05.0	172339	8	166125	10	160690	13	155861	17	151515	20	147566	24	05.0
05.5	172006	8	165836	10	160435	13	155633	17	151309	20	147377	25	04.5
06.0	171676	8	165550	11	160182	14	155406	17	151104	21	147190	25	04.0
06.5	171348	8	165265	11	159930	14	155180	17	150899	21	147003	25	03.5
07.0	171023	8	164982	11	159680	14	154956	17	150696	21	146817	25	03.0
07.5	170700	8	164701	11	159431	14	154733	17	150494	21	146632	25	02.5
08.0	170379	8	164422	11	159184	14	154511	18	150292	21	146448	26	02.0
08.5	170061	9	164144	11	158938	14	154290	18	150092	22	146264	26	01.5
09.0	169745	9	163869	11	158693	15	154070	18	149892	22	146081	26	01.0
09.5	169432	9	163595	12	158450	15	153851	18	149693	22	145899	26	00.5
10.0	169121	9	163322	12	158208	15	153634	18	149496	22	145718	26	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

178°

2°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	145718	26	142243	31	139027	36	136032	41	133231	47	130600	53	10.0
00.5	145538	27	142077	31	138872	36	135888	42	133096	47	130473	53	09.5
01.0	145358	27	141911	32	138718	37	135744	42	132961	48	130346	54	09.0
01.5	145179	27	141745	32	138564	37	135600	42	132826	48	130219	54	08.5
02.0	145001	27	141581	32	138411	37	135457	42	132692	48	130093	54	08.0
02.5	144823	28	141417	32	138258	37	135315	43	132558	49	129967	55	07.5
03.0	144646	28	141253	33	138106	38	135173	43	132425	49	129841	55	07.0
03.5	144470	28	141090	33	137955	38	135031	43	132292	49	129716	55	06.5
04.0	144295	28	140928	33	137804	38	134890	44	132159	49	129591	56	06.0
04.5	144120	28	140766	33	137653	38	134749	44	132027	50	129466	56	05.5
05.0	143946	29	140605	33	137503	39	134609	44	131896	50	129342	56	05.0
05.5	143773	29	140445	34	137354	39	134469	44	131764	50	129219	57	04.5
06.0	143600	29	140285	34	137205	39	134330	45	131633	51	129095	57	04.0
06.5	143428	29	140126	34	137057	39	134191	45	131503	51	128972	57	03.5
07.0	143257	30	139967	34	136909	40	134053	45	131373	51	128849	58	03.0
07.5	143086	30	139809	35	136762	40	133915	46	131243	52	128727	58	02.5
08.0	142916	30	139651	35	136615	40	133777	46	131114	52	128605	58	02.0
08.5	142747	30	139494	35	136468	41	133640	46	130985	52	128483	59	01.5
09.0	142579	31	139338	36	136322	41	133503	46	130856	52	128362	59	01.0
09.5	142411	31	139182	36	136177	41	133367	47	130728	53	128241	59	00.5
10.0	142243	31	139027	36	136032	41	133231	47	130600	53	128120	60	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

177°

3°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	128120	60	125774	66	123549	74	121432	81	119415	89	117487	97	10.0
00.5	128000	60	125660	67	123441	74	121329	81	119316	89	117393	98	09.5
01.0	127880	60	125546	67	123333	74	121226	82	119218	90	117299	98	09.0
01.5	127760	61	125433	67	123225	75	121124	82	119120	90	117205	99	08.5
02.0	127641	61	125320	68	123117	75	121021	83	119022	91	117112	99	08.0
02.5	127522	61	125207	68	123010	75	120919	83	118925	91	117018	99	07.5
03.0	127403	62	125094	68	122903	76	120817	83	118827	91	116925	100	07.0
03.5	127284	62	124982	69	122796	76	120716	84	118730	92	116832	100	06.5
04.0	127166	62	124870	69	122690	77	120614	84	118633	92	116739	101	06.0
04.5	127049	63	124759	70	122584	77	120513	85	118537	93	116647	101	05.5
05.0	126931	63	124647	70	122478	77	120412	85	118440	93	116554	102	05.0
05.5	126814	63	124536	70	122372	78	120311	85	118344	93	116462	102	04.5
06.0	126697	64	124425	71	122267	78	120211	86	118248	94	116370	102	04.0
06.5	126581	64	124315	71	122162	78	120110	86	118152	94	116279	103	03.5
07.0	126465	64	124205	71	122057	79	120010	87	118056	95	116187	103	03.0
07.5	126349	65	124095	72	121952	79	119910	87	117961	95	116096	104	02.5
08.0	126233	65	123985	72	121848	80	119811	87	117866	96	116004	104	02.0
08.5	126118	65	123875	72	121743	80	119711	88	117771	96	115913	105	01.5
09.0	126003	66	123766	73	121640	80	119612	88	117676	96	115823	105	01.0
09.5	125888	66	123657	73	121536	81	119513	89	117581	97	115732	105	00.5
10.0	125774	66	123549	74	121432	81	119415	89	117487	97	115642	106	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

176°

4°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	115642	106	113872	115	112171	124	110536	134	108960	144	107439	155	10.0
00.5	115551	106	113785	115	112088	125	110455	135	108882	145	107364	155	09.5
01.0	115461	107	113699	116	112005	125	110375	135	108805	145	107290	156	09.0
01.5	115371	107	113612	116	111922	126	110296	136	108728	146	107216	156	08.5
02.0	115282	108	113526	117	111839	126	110216	136	108651	146	107141	157	08.0
02.5	115192	108	113440	117	111757	127	110136	137	108574	147	107067	157	07.5
03.0	115103	109	113355	118	111674	127	110057	137	108498	147	106993	158	07.0
03.5	115014	109	113269	118	111592	128	109977	138	108421	148	106919	158	06.5
04.0	114925	109	113184	119	111510	128	109898	138	108345	148	106846	159	06.0
04.5	114836	110	113098	119	111428	129	109819	139	108269	149	106772	160	05.5
05.0	114748	110	113013	120	111346	129	109740	139	108193	149	106699	160	05.0
05.5	114659	111	112928	120	111264	130	109662	140	108117	150	106625	161	04.5
06.0	114571	111	112844	121	111183	130	109583	140	108041	150	106552	161	04.0
06.5	114483	112	112759	121	111101	131	109505	141	107965	151	106479	162	03.5
07.0	114395	112	112675	121	111020	131	109426	141	107890	152	106406	162	03.0
07.5	114307	113	112590	122	110939	132	109348	142	107814	152	106333	163	02.5
08.0	114220	113	112506	122	110858	132	109270	142	107739	153	106260	163	02.0
08.5	114133	114	112422	123	110777	133	109192	143	107664	153	106188	164	01.5
09.0	114045	114	112339	123	110696	133	109115	143	107589	154	106115	164	01.0
09.5	113958	114	112255	124	110616	134	109037	144	107514	154	106043	165	00.5
10.0	113872	115	112171	124	110536	134	108960	144	107439	155	105970	166	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

175°

5°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	105970	166	104550	177	103175	188	101843	200	100550	213	99296	225	10.0
00.5	105898	166	104480	177	103108	189	101777	201	100487	213	99234	226	09.5
01.0	105826	167	104411	178	103040	190	101712	202	100423	214	99172	227	09.0
01.5	105754	167	104341	179	102973	190	101646	202	100360	215	99111	227	08.5
02.0	105683	168	104272	179	102905	191	101581	203	100296	215	99049	228	08.0
02.5	105611	168	104202	180	102838	191	101516	203	100233	216	98988	229	07.5
03.0	105539	169	104133	180	102771	192	101451	204	100170	217	98926	229	07.0
03.5	105468	169	104064	181	102704	193	101386	205	100107	217	98865	230	06.5
04.0	105397	170	103995	181	102637	193	101321	205	100044	218	98804	231	06.0
04.5	105325	171	103926	182	102570	194	101256	206	99981	218	98743	231	05.5
05.0	105254	171	103857	183	102504	194	101192	207	99918	219	98682	232	05.0
05.5	105183	172	103788	183	102437	195	101127	207	99856	220	98621	233	04.5
06.0	105113	172	103720	184	102371	196	101063	208	99793	220	98560	233	04.0
06.5	105042	173	103651	184	102304	196	100998	208	99731	221	98499	234	03.5
07.0	104971	173	103583	185	102238	197	100934	209	99668	222	98439	235	03.0
07.5	104901	174	103515	185	102172	197	100870	210	99606	222	98378	235	02.5
08.0	104830	175	103447	186	102106	198	100806	210	99544	223	98318	236	02.0
08.5	104760	175	103379	187	102040	199	100742	211	99482	224	98257	237	01.5
09.0	104690	176	103311	187	101974	199	100678	212	99419	224	98197	237	01.0
09.5	104620	176	103243	188	101908	200	100614	212	99358	225	98137	238	00.5
10.0	104550	177	103175	188	101843	200	100550	213	99296	225	98077	239	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

174°

6°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	98077	239	96891	252	95738	266	94614	280	93519	295	92452	310	10.0
00.5	98016	239	96833	253	95681	267	94559	281	93465	295	92399	310	09.5
01.0	97957	240	96774	253	95624	267	94503	282	93411	296	92347	311	09.0
01.5	97897	241	96716	254	95567	268	94448	282	93358	297	92294	312	08.5
02.0	97837	241	96658	255	95510	269	94393	283	93304	298	92242	313	08.0
02.5	97777	242	96600	255	95454	269	94338	284	93250	298	92189	313	07.5
03.0	97717	243	96542	256	95397	270	94283	284	93196	299	92137	314	07.0
03.5	97658	243	96484	257	95341	271	94228	285	93143	300	92085	315	06.5
04.0	97598	244	96426	258	95285	272	94173	286	93089	301	92032	316	06.0
04.5	97539	245	96368	258	95228	272	94118	287	93036	301	91980	316	05.5
05.0	97480	245	96310	259	95172	273	94063	287	92982	302	91928	317	05.0
05.5	97421	246	96253	260	95116	274	94009	288	92929	303	91876	318	04.5
06.0	97361	247	96195	260	95060	274	93954	289	92876	304	91824	319	04.0
06.5	97302	247	96138	261	95004	275	93899	290	92823	304	91772	320	03.5
07.0	97243	248	96080	262	94948	276	93845	290	92769	305	91720	320	03.0
07.5	97184	249	96023	262	94892	276	93790	291	92716	306	91669	321	02.5
08.0	97126	249	95966	263	94836	277	93736	292	92663	307	91617	322	02.0
08.5	97067	250	95909	264	94781	278	93682	292	92610	307	91565	323	01.5
09.0	97008	251	95851	264	94725	279	93628	293	92558	308	91514	323	01.0
09.5	96950	251	95794	265	94670	279	93574	294	92505	309	91462	324	00.5
10.0	96891	252	95738	266	94614	280	93519	295	92452	310	91411	325	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

173°

7°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	91411	325	90394	341	89401	357	88430	373	87481	390	86553	407	10.0
00.5	91359	326	90344	341	89352	358	88382	374	87434	391	86507	408	09.5
01.0	91308	326	90293	342	89303	358	88334	375	87388	392	86461	409	09.0
01.5	91256	327	90243	343	89254	359	88287	376	87341	393	86415	410	08.5
02.0	91205	328	90193	344	89205	360	88239	376	87294	393	86370	411	08.0
02.5	91154	329	90143	345	89156	361	88191	377	87247	394	86324	412	07.5
03.0	91103	330	90093	345	89107	362	88143	378	87201	395	86278	412	07.0
03.5	91052	330	90044	346	89059	362	88096	379	87154	396	86233	413	06.5
04.0	91001	331	89994	347	89010	363	88048	380	87108	397	86187	414	06.0
04.5	90950	332	89944	348	88961	364	88001	381	87061	398	86142	415	05.5
05.0	90899	333	89894	349	88913	365	87953	382	87015	399	86096	416	05.0
05.5	90848	334	89845	349	88864	366	87906	382	86968	399	86051	417	04.5
06.0	90798	334	89795	350	88816	367	87858	383	86922	400	86006	418	04.0
06.5	90747	335	89746	351	88767	367	87811	384	86876	401	85960	419	03.5
07.0	90696	336	89696	352	88719	368	87764	385	86829	402	85915	419	03.0
07.5	90646	337	89647	353	88671	369	87717	386	86783	403	85870	420	02.5
08.0	90595	337	89598	353	88623	370	87669	387	86737	404	85825	421	02.0
08.5	90545	338	89548	354	88574	371	87622	387	86691	405	85780	422	01.5
09.0	90494	339	89499	355	88526	371	87575	388	86645	405	85734	423	01.0
09.5	90444	340	89450	356	88478	372	87528	389	86599	406	85689	424	00.5
10.0	90394	341	89401	357	88430	373	87481	390	86553	407	85644	425	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

172°

8°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	85644	425	84755	443	83884	461	83030	480	82193	499	81372	518	10.0
00.5	85600	426	84711	444	83841	462	82988	481	82151	500	81331	519	09.5
01.0	85555	426	84667	444	83797	463	82945	482	82110	501	81291	520	09.0
01.5	85510	427	84623	445	83754	464	82903	483	82069	502	81250	521	08.5
02.0	85465	428	84579	446	83711	465	82861	483	82027	503	81210	522	08.0
02.5	85420	429	84535	447	83669	466	82819	484	81986	504	81169	523	07.5
03.0	85376	430	84492	448	83626	467	82777	485	81945	505	81129	524	07.0
03.5	85331	431	84448	449	83583	467	82735	486	81904	506	81088	525	06.5
04.0	85286	432	84404	450	83540	468	82693	487	81863	506	81048	526	06.0
04.5	85242	433	84361	451	83497	469	82651	488	81821	507	81008	527	05.5
05.0	85197	434	84317	452	83455	470	82609	489	81780	508	80967	528	05.0
05.5	85153	435	84274	453	83412	471	82567	490	81739	509	80927	529	04.5
06.0	85109	435	84230	454	83369	472	82526	491	81698	510	80887	530	04.0
06.5	85064	436	84187	455	83327	473	82484	492	81657	511	80847	531	03.5
07.0	85020	437	84143	455	83284	474	82442	493	81617	512	80807	532	03.0
07.5	84976	438	84100	456	83242	475	82401	494	81576	513	80767	533	02.5
08.0	84931	439	84056	457	83199	476	82359	495	81535	514	80727	534	02.0
08.5	84887	440	84013	458	83157	477	82317	496	81494	515	80687	535	01.5
09.0	84843	441	83970	459	83114	478	82276	497	81453	516	80647	536	01.0
09.5	84799	442	83927	460	83072	479	82234	498	81413	517	80607	537	00.5
10.0	84755	443	83884	461	83030	480	82193	499	81372	518	80567	538	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

171°

9°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	80567	538	79777	558	79001	579	78239	600	77491	621	76756	643	10.0
00.5	80527	539	79737	559	78962	580	78201	601	77454	622	76719	644	09.5
01.0	80487	540	79698	560	78924	581	78164	602	77417	623	76683	645	09.0
01.5	80447	541	79659	561	78886	582	78126	603	77380	624	76646	646	08.5
02.0	80408	542	79620	562	78847	583	78088	604	77343	625	76610	647	08.0
02.5	80368	543	79581	563	78809	584	78051	605	77306	626	76574	648	07.5
03.0	80328	544	79542	564	78771	585	78013	606	77269	628	76538	649	07.0
03.5	80289	545	79503	565	78733	586	77976	607	77232	629	76501	650	06.5
04.0	80249	546	79465	566	78694	587	77938	608	77195	630	76465	652	06.0
04.5	80209	547	79426	567	78656	588	77901	609	77158	631	76429	653	05.5
05.0	80170	548	79387	568	78618	589	77863	610	77122	632	76393	654	05.0
05.5	80130	549	79348	569	78580	590	77826	611	77085	633	76357	655	04.5
06.0	80091	550	79309	571	78542	591	77789	612	77048	634	76321	656	04.0
06.5	80051	551	79271	572	78504	592	77751	614	77011	635	76284	657	03.5
07.0	80012	552	79232	573	78466	593	77714	615	76975	636	76248	658	03.0
07.5	79973	553	79193	574	78428	594	77677	616	76938	637	76212	659	02.5
08.0	79933	554	79155	575	78390	596	77639	617	76902	638	76177	660	02.0
08.5	79894	555	79116	576	78352	597	77602	618	76865	639	76141	662	01.5
09.0	79855	556	79078	577	78315	598	77565	619	76829	641	76105	663	01.0
09.5	79816	557	79039	578	78277	599	77528	620	76792	642	76069	664	00.5
10.0	79777	558	79001	579	78239	600	77491	621	76756	643	76033	665	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

170°

10°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	76033	665	75323	687	74624	710	73937	733	73261	757	72595	781	10.0
00.5	75997	666	75287	688	74589	711	73903	735	73227	758	72562	782	09.5
01.0	75961	667	75252	690	74555	712	73869	736	73194	759	72529	783	09.0
01.5	75926	668	75217	691	74520	714	73835	737	73160	761	72496	785	08.5
02.0	75890	669	75182	692	74486	715	73801	738	73127	762	72463	786	08.0
02.5	75854	670	75147	693	74451	716	73767	739	73093	763	72430	787	07.5
03.0	75819	672	75112	694	74417	717	73733	740	73060	764	72398	788	07.0
03.5	75783	673	75077	695	74382	718	73699	742	73026	765	72365	789	06.5
04.0	75747	674	75042	696	74348	719	73665	743	72993	767	72332	791	06.0
04.5	75712	675	75007	698	74313	721	73631	744	72960	768	72299	792	05.5
05.0	75676	676	74972	699	74279	722	73597	745	72927	769	72266	793	05.0
05.5	75641	677	74937	700	74245	723	73563	746	72893	770	72234	794	04.5
06.0	75605	678	74902	701	74210	724	73530	748	72860	771	72201	796	04.0
06.5	75570	679	74867	702	74176	725	73496	749	72827	773	72168	797	03.5
07.0	75534	681	74832	703	74142	726	73462	750	72794	774	72136	798	03.0
07.5	75499	682	74797	704	74107	728	73429	751	72760	775	72103	799	02.5
08.0	75464	683	74763	706	74073	729	73395	752	72727	776	72070	800	02.0
08.5	75428	684	74728	707	74039	730	73361	753	72694	777	72038	802	01.5
09.0	75393	685	74693	708	74005	731	73328	755	72661	779	72005	803	01.0
09.5	75358	686	74659	709	73971	732	73294	756	72628	780	71973	804	00.5
10.0	75323	687	74624	710	73937	733	73261	757	72595	781	71940	805	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

169°

11°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	71940	805	71295	830	70660	855	70034	881	69418	907	68811	933	10.0
00.5	71908	807	71263	831	70629	856	70003	882	69388	908	68781	934	09.5
01.0	71875	808	71231	833	70597	858	69972	883	69357	909	68750	936	09.0
01.5	71843	809	71199	834	70566	859	69941	885	69326	911	68720	937	08.5
02.0	71810	810	71167	835	70534	860	69910	886	69296	912	68690	938	08.0
02.5	71778	811	71136	836	70503	862	69880	887	69265	913	68660	940	07.5
03.0	71746	813	71104	838	70471	863	69849	888	69235	914	68630	941	07.0
03.5	71713	814	71072	839	70440	864	69818	890	69205	916	68600	942	06.5
04.0	71681	815	71040	840	70409	865	69787	891	69174	917	68570	944	06.0
04.5	71649	816	71008	841	70377	867	69756	892	69144	918	68540	945	05.5
05.0	71616	818	70976	843	70346	868	69725	894	69113	920	68510	946	05.0
05.5	71584	819	70945	844	70315	869	69694	895	69083	921	68480	948	04.5
06.0	71552	820	70913	845	70284	870	69664	896	69053	922	68451	949	04.0
06.5	71520	821	70881	846	70252	872	69633	898	69022	924	68421	950	03.5
07.0	71488	823	70850	848	70221	873	69602	899	68992	925	68391	952	03.0
07.5	71455	824	70818	849	70190	874	69571	900	68962	926	68361	953	02.5
08.0	71423	825	70786	850	70159	876	69541	901	68932	928	68331	954	02.0
08.5	71391	826	70755	851	70128	877	69510	903	68901	929	68301	956	01.5
09.0	71359	828	70723	853	70097	878	69479	904	68871	930	68272	957	01.0
09.5	71327	829	70692	854	70066	879	69449	905	68841	932	68242	958	00.5
10.0	71295	830	70660	855	70034	881	69418	907	68811	933	68212	960	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

168°

12°

	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	68212	960	67622	987	67040	1014	66466	1042	65900	1070	65342	1099	10.0
00.5	68182	961	67593	988	67011	1015	66438	1043	65872	1071	65314	1100	09.5
01.0	68153	962	67563	989	66982	1017	66409	1045	65844	1073	65287	1102	09.0
01.5	68123	964	67534	991	66954	1018	66381	1046	65816	1074	65259	1103	08.5
02.0	68093	965	67505	992	66925	1020	66353	1047	65788	1076	65231	1104	08.0
02.5	68064	966	67476	993	66896	1021	66324	1049	65760	1077	65204	1106	07.5
03.0	68034	968	67447	995	66867	1022	66296	1050	65732	1079	65176	1107	07.0
03.5	68005	969	67417	996	66838	1024	66267	1052	65704	1080	65148	1109	06.5
04.0	67975	970	67388	998	66810	1025	66239	1053	65676	1081	65121	1110	06.0
04.5	67946	972	67359	999	66781	1027	66211	1054	65648	1083	65093	1112	05.5
05.0	67916	973	67330	1000	66752	1028	66182	1056	65620	1084	65066	1113	05.0
05.5	67887	974	67301	1002	66724	1029	66154	1057	65592	1086	65038	1115	04.5
06.0	67857	976	67272	1003	66695	1031	66126	1059	65564	1087	65011	1116	04.0
06.5	67828	977	67243	1004	66666	1032	66098	1060	65537	1089	64983	1117	03.5
07.0	67798	978	67214	1006	66638	1033	66069	1062	65509	1090	64956	1119	03.0
07.5	67769	980	67185	1007	66609	1035	66041	1063	65481	1091	64928	1120	02.5
08.0	67739	981	67156	1009	66580	1036	66013	1064	65453	1093	64901	1122	02.0
08.5	67710	983	67127	1010	66552	1038	65985	1066	65425	1094	64873	1123	01.5
09.0	67681	984	67098	1011	66523	1039	65957	1067	65398	1096	64846	1125	01.0
09.5	67651	985	67069	1013	66495	1040	65928	1069	65370	1097	64819	1126	00.5
10.0	67622	987	67040	1014	66466	1042	65900	1070	65342	1099	64791	1128	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
	50'		40'		30'		20'		10'		00'		

167°

	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	64791	1128	64248	1157	63711	1187	63181	1217	62659	1247	62142	1278	10.0
00.5	64764	1129	64221	1158	63684	1188	63155	1218	62633	1249	62117	1280	09.5
01.0	64737	1131	64194	1160	63658	1190	63129	1220	62607	1250	62091	1281	09.0
01.5	64709	1132	64167	1161	63631	1191	63103	1221	62581	1252	62065	1283	08.5
02.0	64682	1133	64140	1163	63605	1193	63076	1223	62555	1254	62040	1285	08.0
02.5	64655	1135	64113	1164	63578	1194	63050	1224	62529	1255	62014	1286	07.5
03.0	64627	1136	64086	1166	63551	1196	63024	1226	62503	1257	61989	1288	07.0
03.5	64600	1138	64059	1167	63525	1197	62998	1227	62477	1258	61963	1289	06.5
04.0	64573	1139	64032	1169	63498	1199	62972	1229	62451	1260	61938	1291	06.0
04.5	64546	1141	64005	1170	63472	1200	62945	1231	62425	1261	61912	1292	05.5
05.0	64519	1142	63978	1172	63445	1202	62919	1232	62400	1263	61887	1294	05.0
05.5	64491	1144	63952	1173	63419	1203	62893	1234	62374	1264	61861	1295	04.5
06.0	64464	1145	63925	1175	63392	1205	62867	1235	62348	1266	61836	1297	04.0
06.5	64437	1147	63898	1176	63366	1206	62841	1237	62322	1267	61810	1299	03.5
07.0	64410	1148	63871	1178	63340	1208	62815	1238	62297	1269	61785	1300	03.0
07.5	64383	1150	63845	1179	63313	1209	62789	1240	62271	1271	61759	1302	02.5
08.0	64356	1151	63818	1181	63287	1211	62763	1241	62245	1272	61734	1303	02.0
08.5	64329	1153	63791	1182	63260	1212	62737	1243	62219	1274	61709	1305	01.5
09.0	64302	1154	63764	1184	63234	1214	62711	1244	62194	1275	61683	1306	01.0
09.5	64275	1155	63738	1185	63208	1215	62685	1246	62168	1277	61658	1308	00.5
10.0	64248	1157	63711	1187	63181	1217	62659	1247	62142	1278	61632	1310	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
	50'		40'		30'		20'		10'		00'		

166°

14°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	61632	1310	61129	1341	60631	1373	60140	1406	59654	1439	59175	1472	10.0
00.5	61607	1311	61104	1343	60607	1375	60116	1407	59630	1440	59151	1474	09.5
01.0	61582	1313	61079	1344	60582	1377	60091	1409	59606	1442	59127	1475	09.0
01.5	61557	1314	61054	1346	60557	1378	60067	1411	59582	1444	59103	1477	08.5
02.0	61531	1316	61029	1348	60533	1380	60042	1412	59558	1445	59079	1479	08.0
02.5	61506	1317	61004	1349	60508	1381	60018	1414	59534	1447	59056	1480	07.5
03.0	61481	1319	60979	1351	60483	1383	59994	1416	59510	1449	59032	1482	07.0
03.5	61456	1321	60954	1352	60459	1385	59969	1417	59486	1450	59008	1484	06.5
04.0	61430	1322	60929	1354	60434	1386	59945	1419	59462	1452	58984	1485	06.0
04.5	61405	1324	60904	1356	60410	1388	59921	1421	59438	1454	58961	1487	05.5
05.0	61380	1325	60879	1357	60385	1390	59897	1422	59414	1455	58937	1489	05.0
05.5	61355	1327	60855	1359	60360	1391	59872	1424	59390	1457	58913	1490	04.5
06.0	61330	1329	60830	1360	60336	1393	59848	1426	59366	1459	58889	1492	04.0
06.5	61304	1330	60805	1362	60311	1394	59824	1427	59342	1460	58866	1494	03.5
07.0	61279	1332	60780	1364	60287	1396	59800	1429	59318	1462	58842	1495	03.0
07.5	61254	1333	60755	1365	60262	1398	59775	1430	59294	1464	58818	1497	02.5
08.0	61229	1335	60730	1367	60238	1399	59751	1432	59270	1465	58795	1499	02.0
08.5	61204	1337	60706	1369	60213	1401	59727	1434	59246	1467	58771	1501	01.5
09.0	61179	1338	60681	1370	60189	1403	59703	1435	59222	1469	58748	1502	01.0
09.5	61154	1340	60656	1372	60164	1404	59679	1437	59198	1470	58724	1504	00.5
10.0	61129	1341	60631	1373	60140	1406	59654	1439	59175	1472	58700	1506	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

15°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	58700	1506	58232	1540	57768	1574	57310	1609	56857	1644	56409	1680	10.0
00.5	58677	1507	58208	1541	57745	1576	57287	1611	56835	1646	56387	1682	09.5
01.0	58653	1509	58185	1543	57722	1578	57265	1612	56812	1648	56365	1683	09.0
01.5	58630	1511	58162	1545	57699	1579	57242	1614	56790	1650	56342	1685	08.5
02.0	58606	1512	58139	1547	57676	1581	57219	1616	56767	1651	56320	1687	08.0
02.5	58583	1514	58115	1548	57653	1583	57196	1618	56745	1653	56298	1689	07.5
03.0	58559	1516	58092	1550	57630	1585	57174	1619	56722	1655	56276	1691	07.0
03.5	58536	1517	58069	1552	57607	1586	57151	1621	56700	1657	56254	1692	06.5
04.0	58512	1519	58046	1553	57584	1588	57128	1623	56677	1658	56231	1694	06.0
04.5	58489	1521	58022	1555	57561	1590	57106	1625	56655	1660	56209	1696	05.5
05.0	58465	1523	57999	1557	57539	1591	57083	1627	56633	1662	56187	1698	05.0
05.5	58442	1524	57976	1559	57516	1593	57060	1628	56610	1664	56165	1700	04.5
06.0	58418	1526	57953	1560	57493	1595	57038	1630	56588	1666	56143	1701	04.0
06.5	58395	1528	57930	1562	57470	1597	57015	1632	56565	1667	56121	1703	03.5
07.0	58372	1529	57907	1564	57447	1598	56992	1634	56543	1669	56099	1705	03.0
07.5	58348	1531	57884	1565	57424	1600	56970	1635	56521	1671	56076	1707	02.5
08.0	58325	1533	57860	1567	57401	1602	56947	1637	56498	1673	56054	1709	02.0
08.5	58302	1535	57837	1569	57379	1604	56925	1639	56476	1674	56032	1710	01.5
09.0	58278	1536	57814	1571	57356	1605	56902	1641	56454	1676	56010	1712	01.0
09.5	58255	1538	57791	1572	57333	1607	56880	1642	56431	1678	55988	1714	00.5
10.0	58232	1540	57768	1574	57310	1609	56857	1644	56409	1680	55966	1716	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

Warning: This page has been generated by a computer program. Complex computer programs usually have bugs and may produce wrong data. The data on this page is believed to be accurate but no warranty is given for its correctness. Use it only for training and exercising!

16°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	55966	1716	55528	1752	55095	1789	54666	1826	54242	1864	53822	1902	10.0
00.5	55944	1718	55506	1754	55073	1791	54645	1828	54221	1866	53801	1904	09.5
01.0	55922	1719	55484	1756	55052	1793	54623	1830	54199	1868	53780	1906	09.0
01.5	55900	1721	55463	1758	55030	1795	54602	1832	54178	1870	53759	1908	08.5
02.0	55878	1723	55441	1760	55008	1796	54581	1834	54157	1871	53738	1910	08.0
02.5	55856	1725	55419	1761	54987	1798	54559	1836	54136	1873	53718	1912	07.5
03.0	55834	1727	55398	1763	54965	1800	54538	1838	54115	1875	53697	1913	07.0
03.5	55812	1729	55376	1765	54944	1802	54517	1839	54094	1877	53676	1915	06.5
04.0	55790	1730	55354	1767	54923	1804	54496	1841	54073	1879	53655	1917	06.0
04.5	55768	1732	55332	1769	54901	1806	54474	1843	54052	1881	53634	1919	05.5
05.0	55747	1734	55311	1771	54880	1808	54453	1845	54031	1883	53614	1921	05.0
05.5	55725	1736	55289	1772	54858	1810	54432	1847	54010	1885	53593	1923	04.5
06.0	55703	1738	55267	1774	54837	1811	54411	1849	53989	1887	53572	1925	04.0
06.5	55681	1739	55246	1776	54815	1813	54390	1851	53968	1889	53551	1927	03.5
07.0	55659	1741	55224	1778	54794	1815	54368	1853	53947	1890	53531	1929	03.0
07.5	55637	1743	55203	1780	54773	1817	54347	1854	53926	1892	53510	1931	02.5
08.0	55615	1745	55181	1782	54751	1819	54326	1856	53905	1894	53489	1933	02.0
08.5	55593	1747	55159	1784	54730	1821	54305	1858	53885	1896	53468	1935	01.5
09.0	55572	1749	55138	1785	54708	1823	54284	1860	53864	1898	53448	1937	01.0
09.5	55550	1750	55116	1787	54687	1824	54263	1862	53843	1900	53427	1938	00.5
10.0	55528	1752	55095	1789	54666	1826	54242	1864	53822	1902	53406	1940	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

163°

17°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	53406	1940	52995	1979	52589	2018	52186	2058	51787	2098	51393	2139	10.0
00.5	53386	1942	52975	1981	52568	2020	52166	2060	51767	2100	51373	2141	09.5
01.0	53365	1944	52955	1983	52548	2022	52146	2062	51748	2102	51353	2143	09.0
01.5	53345	1946	52934	1985	52528	2024	52126	2064	51728	2104	51334	2145	08.5
02.0	53324	1948	52914	1987	52508	2026	52106	2066	51708	2106	51314	2147	08.0
02.5	53303	1950	52893	1989	52487	2028	52086	2068	51688	2108	51294	2149	07.5
03.0	53283	1952	52873	1991	52467	2030	52066	2070	51668	2110	51275	2151	07.0
03.5	53262	1954	52853	1993	52447	2032	52046	2072	51649	2112	51255	2153	06.5
04.0	53242	1956	52832	1995	52427	2034	52026	2074	51629	2114	51236	2155	06.0
04.5	53221	1958	52812	1997	52407	2036	52006	2076	51609	2116	51216	2157	05.5
05.0	53200	1960	52791	1999	52387	2038	51986	2078	51589	2118	51197	2159	05.0
05.5	53180	1962	52771	2001	52367	2040	51966	2080	51570	2120	51177	2161	04.5
06.0	53159	1964	52751	2003	52346	2042	51946	2082	51550	2122	51158	2163	04.0
06.5	53139	1966	52730	2005	52326	2044	51926	2084	51530	2124	51138	2165	03.5
07.0	53118	1968	52710	2007	52306	2046	51906	2086	51510	2126	51119	2167	03.0
07.5	53098	1969	52690	2009	52286	2048	51886	2088	51491	2128	51099	2169	02.5
08.0	53077	1971	52670	2011	52266	2050	51867	2090	51471	2130	51080	2171	02.0
08.5	53057	1973	52649	2013	52246	2052	51847	2092	51451	2132	51060	2173	01.5
09.0	53036	1975	52629	2014	52226	2054	51827	2094	51432	2134	51041	2175	01.0
09.5	53016	1977	52609	2016	52206	2056	51807	2096	51412	2136	51021	2177	00.5
10.0	52995	1979	52589	2018	52186	2058	51787	2098	51393	2139	51002	2179	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

162°

18°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	51002	2179	50615	2221	50232	2262	49852	2304	49477	2347	49104	2390	10.0
00.5	50982	2181	50596	2223	50213	2264	49833	2306	49458	2349	49086	2392	09.5
01.0	50963	2183	50576	2225	50194	2266	49815	2309	49439	2351	49067	2394	09.0
01.5	50943	2186	50557	2227	50175	2269	49796	2311	49421	2353	49049	2396	08.5
02.0	50924	2188	50538	2229	50156	2271	49777	2313	49402	2355	49030	2398	08.0
02.5	50905	2190	50519	2231	50137	2273	49758	2315	49383	2357	49012	2400	07.5
03.0	50885	2192	50500	2233	50118	2275	49739	2317	49365	2360	48993	2403	07.0
03.5	50866	2194	50480	2235	50099	2277	49720	2319	49346	2362	48975	2405	06.5
04.0	50847	2196	50461	2237	50080	2279	49702	2321	49327	2364	48957	2407	06.0
04.5	50827	2198	50442	2239	50061	2281	49683	2323	49309	2366	48938	2409	05.5
05.0	50808	2200	50423	2241	50042	2283	49664	2326	49290	2368	48920	2411	05.0
05.5	50788	2202	50404	2243	50023	2285	49645	2328	49271	2370	48901	2413	04.5
06.0	50769	2204	50385	2246	50004	2287	49626	2330	49253	2372	48883	2416	04.0
06.5	50750	2206	50365	2248	49985	2290	49608	2332	49234	2375	48864	2418	03.5
07.0	50731	2208	50346	2250	49966	2292	49589	2334	49216	2377	48846	2420	03.0
07.5	50711	2210	50327	2252	49947	2294	49570	2336	49197	2379	48828	2422	02.5
08.0	50692	2212	50308	2254	49928	2296	49551	2338	49179	2381	48809	2424	02.0
08.5	50673	2214	50289	2256	49909	2298	49533	2340	49160	2383	48791	2426	01.5
09.0	50653	2216	50270	2258	49890	2300	49514	2343	49142	2385	48773	2429	01.0
09.5	50634	2219	50251	2260	49871	2302	49495	2345	49123	2388	48754	2431	00.5
10.0	50615	2221	50232	2262	49852	2304	49477	2347	49104	2390	48736	2433	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

161°

19°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	48736	2433	48371	2477	48009	2521	47650	2565	47295	2610	46944	2656	10.0
00.5	48717	2435	48352	2479	47991	2523	47633	2568	47278	2613	46926	2658	09.5
01.0	48699	2437	48334	2481	47973	2525	47615	2570	47260	2615	46908	2660	09.0
01.5	48681	2440	48316	2483	47955	2527	47597	2572	47242	2617	46891	2662	08.5
02.0	48662	2442	48298	2485	47937	2530	47579	2574	47225	2619	46874	2665	08.0
02.5	48644	2444	48280	2488	47919	2532	47561	2577	47207	2622	46856	2667	07.5
03.0	48626	2446	48262	2490	47901	2534	47544	2579	47189	2624	46839	2669	07.0
03.5	48608	2448	48244	2492	47883	2536	47526	2581	47172	2626	46821	2672	06.5
04.0	48589	2450	48226	2494	47865	2539	47508	2583	47154	2628	46804	2674	06.0
04.5	48571	2453	48207	2496	47847	2541	47490	2586	47137	2631	46786	2676	05.5
05.0	48553	2455	48189	2499	47829	2543	47473	2588	47119	2633	46769	2678	05.0
05.5	48535	2457	48171	2501	47811	2545	47455	2590	47101	2635	46751	2681	04.5
06.0	48516	2459	48153	2503	47793	2547	47437	2592	47084	2637	46734	2683	04.0
06.5	48498	2461	48135	2505	47776	2550	47419	2595	47066	2640	46717	2685	03.5
07.0	48480	2464	48117	2508	47758	2552	47402	2597	47049	2642	46699	2688	03.0
07.5	48462	2466	48099	2510	47740	2554	47384	2599	47031	2644	46682	2690	02.5
08.0	48443	2468	48081	2512	47722	2556	47366	2601	47014	2647	46664	2692	02.0
08.5	48425	2470	48063	2514	47704	2559	47348	2604	46996	2649	46647	2695	01.5
09.0	48407	2472	48045	2516	47686	2561	47331	2606	46979	2651	46630	2697	01.0
09.5	48389	2475	48027	2519	47668	2563	47313	2608	46961	2653	46612	2699	00.5
10.0	48371	2477	48009	2521	47650	2565	47295	2610	46944	2656	46595	2701	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

160°

20°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	46595	2701	46249	2748	45907	2794	45567	2841	45231	2889	44898	2937	10.0
00.5	46577	2704	46232	2750	45890	2797	45551	2844	45214	2891	44881	2939	09.5
01.0	46560	2706	46215	2752	45873	2799	45534	2846	45198	2893	44864	2941	09.0
01.5	46543	2708	46198	2755	45856	2801	45517	2848	45181	2896	44848	2944	08.5
02.0	46525	2711	46181	2757	45839	2804	45500	2851	45164	2898	44831	2946	08.0
02.5	46508	2713	46163	2759	45822	2806	45483	2853	45147	2901	44815	2949	07.5
03.0	46491	2715	46146	2762	45805	2808	45466	2855	45131	2903	44798	2951	07.0
03.5	46474	2718	46129	2764	45788	2811	45449	2858	45114	2905	44782	2953	06.5
04.0	46456	2720	46112	2766	45771	2813	45433	2860	45097	2908	44765	2956	06.0
04.5	46439	2722	46095	2769	45754	2815	45416	2863	45081	2910	44749	2958	05.5
05.0	46422	2724	46078	2771	45737	2818	45399	2865	45064	2913	44732	2961	05.0
05.5	46404	2727	46061	2773	45720	2820	45382	2867	45047	2915	44715	2963	04.5
06.0	46387	2729	46043	2776	45703	2822	45365	2870	45031	2917	44699	2965	04.0
06.5	46370	2731	46026	2778	45686	2825	45348	2872	45014	2920	44682	2968	03.5
07.0	46353	2734	46009	2780	45669	2827	45332	2874	44997	2922	44666	2970	03.0
07.5	46335	2736	45992	2783	45652	2829	45315	2877	44981	2925	44649	2973	02.5
08.0	46318	2738	45975	2785	45635	2832	45298	2879	44964	2927	44633	2975	02.0
08.5	46301	2741	45958	2787	45618	2834	45281	2882	44947	2929	44616	2978	01.5
09.0	46284	2743	45941	2790	45601	2837	45265	2884	44931	2932	44600	2980	01.0
09.5	46267	2745	45924	2792	45584	2839	45248	2886	44914	2934	44584	2982	00.5
10.0	46249	2748	45907	2794	45567	2841	45231	2889	44898	2937	44567	2985	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

159°

21°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	44567	2985	44239	3034	43915	3083	43592	3132	43273	3182	42956	3233	10.0
00.5	44551	2987	44223	3036	43898	3085	43576	3135	43257	3185	42941	3235	09.5
01.0	44534	2990	44207	3038	43882	3088	43560	3137	43241	3187	42925	3238	09.0
01.5	44518	2992	44190	3041	43866	3090	43544	3140	43225	3190	42909	3240	08.5
02.0	44501	2995	44174	3043	43850	3093	43528	3142	43210	3192	42893	3243	08.0
02.5	44485	2997	44158	3046	43834	3095	43512	3145	43194	3195	42878	3245	07.5
03.0	44468	2999	44142	3048	43818	3097	43496	3147	43178	3197	42862	3248	07.0
03.5	44452	3002	44125	3051	43801	3100	43480	3150	43162	3200	42846	3250	06.5
04.0	44436	3004	44109	3053	43785	3102	43464	3152	43146	3202	42831	3253	06.0
04.5	44419	3007	44093	3056	43769	3105	43448	3155	43130	3205	42815	3255	05.5
05.0	44403	3009	44077	3058	43753	3107	43432	3157	43114	3207	42799	3258	05.0
05.5	44387	3012	44060	3060	43737	3110	43416	3160	43099	3210	42783	3260	04.5
06.0	44370	3014	44044	3063	43721	3112	43401	3162	43083	3212	42768	3263	04.0
06.5	44354	3016	44028	3065	43705	3115	43385	3165	43067	3215	42752	3266	03.5
07.0	44337	3019	44012	3068	43689	3117	43369	3167	43051	3217	42736	3268	03.0
07.5	44321	3021	43995	3070	43673	3120	43353	3170	43035	3220	42721	3271	02.5
08.0	44305	3024	43979	3073	43657	3122	43337	3172	43020	3222	42705	3273	02.0
08.5	44288	3026	43963	3075	43641	3125	43321	3175	43004	3225	42689	3276	01.5
09.0	44272	3029	43947	3078	43625	3127	43305	3177	42988	3228	42674	3278	01.0
09.5	44256	3031	43931	3080	43608	3130	43289	3180	42972	3230	42658	3281	00.5
10.0	44239	3034	43915	3083	43592	3132	43273	3182	42956	3233	42642	3283	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

158°

Warning: This page has been generated by a computer program. Complex computer programs usually have bugs and may produce wrong data. The data on this page is believed to be accurate but no warranty is given for its correctness. Use it only for training and exercising!

22°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	42642	3283	42331	3335	42022	3386	41716	3438	41412	3491	41111	3544	10.0
00.5	42627	3286	42316	3337	42007	3389	41701	3441	41397	3494	41096	3547	09.5
01.0	42611	3289	42300	3340	41992	3392	41686	3444	41382	3496	41081	3549	09.0
01.5	42596	3291	42285	3342	41976	3394	41670	3446	41367	3499	41066	3552	08.5
02.0	42580	3294	42269	3345	41961	3397	41655	3449	41352	3502	41051	3555	08.0
02.5	42564	3296	42254	3348	41945	3399	41640	3452	41337	3504	41036	3557	07.5
03.0	42549	3299	42238	3350	41930	3402	41625	3454	41322	3507	41021	3560	07.0
03.5	42533	3301	42223	3353	41915	3405	41609	3457	41307	3510	41006	3563	06.5
04.0	42518	3304	42207	3355	41899	3407	41594	3459	41291	3512	40991	3565	06.0
04.5	42502	3306	42192	3358	41884	3410	41579	3462	41276	3515	40976	3568	05.5
05.0	42486	3309	42176	3360	41869	3412	41564	3465	41261	3517	40961	3571	05.0
05.5	42471	3312	42161	3363	41854	3415	41549	3467	41246	3520	40946	3573	04.5
06.0	42455	3314	42145	3366	41838	3418	41533	3470	41231	3523	40931	3576	04.0
06.5	42440	3317	42130	3368	41823	3420	41518	3473	41216	3525	40917	3579	03.5
07.0	42424	3319	42115	3371	41808	3423	41503	3475	41201	3528	40902	3581	03.0
07.5	42409	3322	42099	3373	41792	3425	41488	3478	41186	3531	40887	3584	02.5
08.0	42393	3324	42084	3376	41777	3428	41473	3480	41171	3533	40872	3587	02.0
08.5	42378	3327	42068	3379	41762	3431	41458	3483	41156	3536	40857	3589	01.5
09.0	42362	3330	42053	3381	41747	3433	41443	3486	41141	3539	40842	3592	01.0
09.5	42347	3332	42038	3384	41731	3436	41427	3488	41126	3541	40827	3595	00.5
10.0	42331	3335	42022	3386	41716	3438	41412	3491	41111	3544	40812	3597	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

157°

23°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	40812	3597	40516	3651	40222	3706	39930	3760	39641	3815	39354	3871	10.0
00.5	40797	3600	40501	3654	40207	3708	39916	3763	39626	3818	39339	3874	09.5
01.0	40782	3603	40486	3657	40192	3711	39901	3766	39612	3821	39325	3877	09.0
01.5	40768	3605	40472	3659	40178	3714	39886	3768	39597	3824	39311	3879	08.5
02.0	40753	3608	40457	3662	40163	3716	39872	3771	39583	3826	39296	3882	08.0
02.5	40738	3611	40442	3665	40149	3719	39857	3774	39569	3829	39282	3885	07.5
03.0	40723	3613	40427	3667	40134	3722	39843	3777	39554	3832	39268	3888	07.0
03.5	40708	3616	40413	3670	40119	3725	39828	3779	39540	3835	39254	3891	06.5
04.0	40693	3619	40398	3673	40105	3727	39814	3782	39526	3838	39239	3893	06.0
04.5	40679	3622	40383	3676	40090	3730	39800	3785	39511	3840	39225	3896	05.5
05.0	40664	3624	40368	3678	40076	3733	39785	3788	39497	3843	39211	3899	05.0
05.5	40649	3627	40354	3681	40061	3736	39771	3790	39482	3846	39197	3902	04.5
06.0	40634	3630	40339	3684	40046	3738	39756	3793	39468	3849	39182	3905	04.0
06.5	40619	3632	40324	3686	40032	3741	39742	3796	39454	3851	39168	3907	03.5
07.0	40604	3635	40310	3689	40017	3744	39727	3799	39439	3854	39154	3910	03.0
07.5	40590	3638	40295	3692	40003	3747	39713	3802	39425	3857	39140	3913	02.5
08.0	40575	3640	40280	3695	39988	3749	39698	3804	39411	3860	39125	3916	02.0
08.5	40560	3643	40266	3697	39974	3752	39684	3807	39396	3863	39111	3919	01.5
09.0	40545	3646	40251	3700	39959	3755	39669	3810	39382	3865	39097	3921	01.0
09.5	40531	3649	40236	3703	39945	3757	39655	3813	39368	3868	39083	3924	00.5
10.0	40516	3651	40222	3706	39930	3760	39641	3815	39354	3871	39069	3927	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

156°

24°

	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	39069	3927	38786	3983	38506	4040	38227	4098	37951	4156	37677	4214	10.0
00.5	39054	3930	38772	3986	38492	4043	38213	4101	37937	4158	37663	4217	09.5
01.0	39040	3933	38758	3989	38478	4046	38200	4103	37924	4161	37650	4220	09.0
01.5	39026	3935	38744	3992	38464	4049	38186	4106	37910	4164	37636	4223	08.5
02.0	39012	3938	38730	3995	38450	4052	38172	4109	37896	4167	37623	4225	08.0
02.5	38998	3941	38716	3998	38436	4055	38158	4112	37882	4170	37609	4228	07.5
03.0	38984	3944	38702	4000	38422	4058	38144	4115	37869	4173	37595	4231	07.0
03.5	38969	3947	38688	4003	38408	4060	38130	4118	37855	4176	37582	4234	06.5
04.0	38955	3950	38674	4006	38394	4063	38117	4121	37841	4179	37568	4237	06.0
04.5	38941	3952	38660	4009	38380	4066	38103	4124	37828	4182	37554	4240	05.5
05.0	38927	3955	38646	4012	38366	4069	38089	4127	37814	4185	37541	4243	05.0
05.5	38913	3958	38632	4015	38352	4072	38075	4129	37800	4187	37527	4246	04.5
06.0	38899	3961	38618	4018	38338	4075	38061	4132	37786	4190	37514	4249	04.0
06.5	38885	3964	38603	4020	38324	4078	38048	4135	37773	4193	37500	4252	03.5
07.0	38871	3966	38589	4023	38311	4080	38034	4138	37759	4196	37487	4255	03.0
07.5	38856	3969	38575	4026	38297	4083	38020	4141	37745	4199	37473	4258	02.5
08.0	38842	3972	38562	4029	38283	4086	38006	4144	37732	4202	37459	4261	02.0
08.5	38828	3975	38548	4032	38269	4089	37992	4147	37718	4205	37446	4264	01.5
09.0	38814	3978	38534	4035	38255	4092	37979	4150	37704	4208	37432	4267	01.0
09.5	38800	3981	38520	4038	38241	4095	37965	4153	37691	4211	37419	4269	00.5
10.0	38786	3983	38506	4040	38227	4098	37951	4156	37677	4214	37405	4272	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
	50'		40'		30'		20'		10'		00'		

155°

	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	37405	4272	37135	4332	36867	4391	36602	4451	36338	4512	36076	4573	10.0
00.5	37392	4275	37122	4335	36854	4394	36588	4454	36325	4515	36063	4576	09.5
01.0	37378	4278	37108	4337	36841	4397	36575	4457	36311	4518	36050	4579	09.0
01.5	37365	4281	37095	4340	36827	4400	36562	4460	36298	4521	36037	4582	08.5
02.0	37351	4284	37082	4343	36814	4403	36549	4463	36285	4524	36024	4585	08.0
02.5	37338	4287	37068	4346	36801	4406	36535	4466	36272	4527	36011	4588	07.5
03.0	37324	4290	37055	4349	36787	4409	36522	4469	36259	4530	35998	4591	07.0
03.5	37310	4293	37041	4352	36774	4412	36509	4472	36246	4533	35985	4594	06.5
04.0	37297	4296	37028	4355	36761	4415	36496	4475	36233	4536	35972	4597	06.0
04.5	37283	4299	37014	4358	36748	4418	36483	4478	36220	4539	35959	4600	05.5
05.0	37270	4302	37001	4361	36734	4421	36469	4481	36206	4542	35946	4603	05.0
05.5	37256	4305	36988	4364	36721	4424	36456	4484	36193	4545	35933	4606	04.5
06.0	37243	4308	36974	4367	36708	4427	36443	4487	36180	4548	35920	4609	04.0
06.5	37230	4311	36961	4370	36694	4430	36430	4490	36167	4551	35907	4612	03.5
07.0	37216	4314	36948	4373	36681	4433	36417	4493	36154	4554	35894	4616	03.0
07.5	37203	4317	36934	4376	36668	4436	36403	4496	36141	4557	35881	4619	02.5
08.0	37189	4320	36921	4379	36655	4439	36390	4500	36128	4560	35868	4622	02.0
08.5	37176	4323	36907	4382	36641	4442	36377	4503	36115	4563	35855	4625	01.5
09.0	37162	4326	36894	4385	36628	4445	36364	4506	36102	4566	35842	4628	01.0
09.5	37149	4329	36881	4388	36615	4448	36351	4509	36089	4570	35829	4631	00.5
10.0	37135	4332	36867	4391	36602	4451	36338	4512	36076	4573	35816	4634	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
	50'		40'		30'		20'		10'		00'		

154°

26°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	35816	4634	35558	4696	35302	4758	35047	4821	34795	4884	34544	4948	10.0
00.5	35803	4637	35545	4699	35289	4761	35035	4824	34782	4887	34532	4951	09.5
01.0	35790	4640	35532	4702	35276	4764	35022	4827	34770	4890	34519	4954	09.0
01.5	35777	4643	35519	4705	35263	4768	35009	4830	34757	4894	34507	4957	08.5
02.0	35764	4646	35506	4708	35251	4771	34997	4833	34745	4897	34494	4961	08.0
02.5	35751	4649	35494	4711	35238	4774	34984	4837	34732	4900	34482	4964	07.5
03.0	35738	4652	35481	4714	35225	4777	34971	4840	34719	4903	34469	4967	07.0
03.5	35725	4656	35468	4718	35212	4780	34959	4843	34707	4906	34457	4970	06.5
04.0	35712	4659	35455	4721	35200	4783	34946	4846	34694	4910	34444	4973	06.0
04.5	35699	4662	35442	4724	35187	4786	34933	4849	34682	4913	34432	4977	05.5
05.0	35687	4665	35429	4727	35174	4789	34921	4852	34669	4916	34420	4980	05.0
05.5	35674	4668	35417	4730	35161	4793	34908	4856	34657	4919	34407	4983	04.5
06.0	35661	4671	35404	4733	35149	4796	34896	4859	34644	4922	34395	4986	04.0
06.5	35648	4674	35391	4736	35136	4799	34883	4862	34632	4925	34382	4989	03.5
07.0	35635	4677	35378	4739	35123	4802	34870	4865	34619	4929	34370	4993	03.0
07.5	35622	4680	35365	4743	35111	4805	34858	4868	34607	4932	34357	4996	02.5
08.0	35609	4683	35353	4746	35098	4808	34845	4871	34594	4935	34345	4999	02.0
08.5	35596	4687	35340	4749	35085	4811	34833	4875	34582	4938	34333	5002	01.5
09.0	35583	4690	35327	4752	35073	4815	34820	4878	34569	4941	34320	5005	01.0
09.5	35571	4693	35314	4755	35060	4818	34807	4881	34557	4945	34308	5009	00.5
10.0	35558	4696	35302	4758	35047	4821	34795	4884	34544	4948	34295	5012	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

153°

27°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	34295	5012	34048	5077	33803	5142	33559	5207	33318	5273	33078	5340	10.0
00.5	34283	5015	34036	5080	33791	5145	33547	5210	33306	5276	33066	5343	09.5
01.0	34271	5018	34024	5083	33779	5148	33535	5214	33294	5280	33054	5346	09.0
01.5	34258	5022	34011	5086	33766	5151	33523	5217	33281	5283	33042	5350	08.5
02.0	34246	5025	33999	5089	33754	5155	33511	5220	33269	5286	33030	5353	08.0
02.5	34233	5028	33987	5093	33742	5158	33499	5224	33257	5290	33018	5356	07.5
03.0	34221	5031	33975	5096	33730	5161	33487	5227	33245	5293	33006	5360	07.0
03.5	34209	5034	33962	5099	33718	5164	33475	5230	33233	5296	32994	5363	06.5
04.0	34196	5038	33950	5102	33705	5168	33463	5233	33221	5300	32982	5366	06.0
04.5	34184	5041	33938	5106	33693	5171	33450	5237	33209	5303	32970	5370	05.5
05.0	34172	5044	33925	5109	33681	5174	33438	5240	33197	5306	32958	5373	05.0
05.5	34159	5047	33913	5112	33669	5178	33426	5243	33185	5310	32946	5376	04.5
06.0	34147	5051	33901	5115	33657	5181	33414	5247	33173	5313	32934	5380	04.0
06.5	34135	5054	33889	5119	33644	5184	33402	5250	33161	5316	32922	5383	03.5
07.0	34122	5057	33876	5122	33632	5187	33390	5253	33149	5320	32910	5386	03.0
07.5	34110	5060	33864	5125	33620	5191	33378	5257	33137	5323	32899	5390	02.5
08.0	34098	5064	33852	5129	33608	5194	33366	5260	33125	5326	32887	5393	02.0
08.5	34085	5067	33840	5132	33596	5197	33354	5263	33113	5330	32875	5396	01.5
09.0	34073	5070	33827	5135	33584	5201	33342	5266	33101	5333	32863	5400	01.0
09.5	34061	5073	33815	5138	33572	5204	33330	5270	33089	5336	32851	5403	00.5
10.0	34048	5077	33803	5142	33559	5207	33318	5273	33078	5340	32839	5407	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

152°

Warning: This page has been generated by a computer program. Complex computer programs usually have bugs and may produce wrong data. The data on this page is believed to be accurate but no warranty is given for its correctness. Use it only for training and exercising!

28°

	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	32839	5407	32602	5474	32367	5542	32134	5610	31902	5679	31672	5748	10.0
00.5	32827	5410	32591	5477	32355	5545	32122	5614	31890	5682	31660	5752	09.5
01.0	32815	5413	32579	5481	32344	5549	32110	5617	31879	5686	31649	5755	09.0
01.5	32803	5417	32567	5484	32332	5552	32099	5620	31867	5689	31637	5759	08.5
02.0	32792	5420	32555	5487	32320	5555	32087	5624	31856	5693	31626	5762	08.0
02.5	32780	5423	32543	5491	32309	5559	32076	5627	31844	5696	31614	5766	07.5
03.0	32768	5427	32532	5494	32297	5562	32064	5631	31833	5700	31603	5769	07.0
03.5	32756	5430	32520	5498	32285	5566	32052	5634	31821	5703	31591	5773	06.5
04.0	32744	5433	32508	5501	32274	5569	32041	5638	31810	5707	31580	5776	06.0
04.5	32732	5437	32496	5504	32262	5572	32029	5641	31798	5710	31568	5780	05.5
05.0	32720	5440	32485	5508	32250	5576	32018	5645	31787	5714	31557	5783	05.0
05.5	32709	5444	32473	5511	32239	5579	32006	5648	31775	5717	31546	5787	04.5
06.0	32697	5447	32461	5515	32227	5583	31994	5651	31763	5721	31534	5790	04.0
06.5	32685	5450	32449	5518	32215	5586	31983	5655	31752	5724	31523	5794	03.5
07.0	32673	5454	32438	5521	32204	5590	31971	5658	31740	5727	31511	5797	03.0
07.5	32661	5457	32426	5525	32192	5593	31960	5662	31729	5731	31500	5801	02.5
08.0	32650	5460	32414	5528	32180	5596	31948	5665	31717	5734	31488	5804	02.0
08.5	32638	5464	32402	5532	32169	5600	31937	5669	31706	5738	31477	5808	01.5
09.0	32626	5467	32391	5535	32157	5603	31925	5672	31695	5741	31466	5811	01.0
09.5	32614	5471	32379	5538	32145	5607	31913	5676	31683	5745	31454	5815	00.5
10.0	32602	5474	32367	5542	32134	5610	31902	5679	31672	5748	31443	5818	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
	50'		40'		30'		20'		10'		00'		

151°

	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	31443	5818	31216	5888	30990	5959	30766	6030	30544	6102	30323	6174	10.0
00.5	31431	5822	31204	5892	30979	5963	30755	6034	30532	6106	30312	6178	09.5
01.0	31420	5825	31193	5895	30968	5966	30744	6037	30521	6109	30301	6181	09.0
01.5	31409	5829	31182	5899	30956	5970	30733	6041	30510	6113	30290	6185	08.5
02.0	31397	5832	31171	5902	30945	5973	30721	6045	30499	6116	30279	6189	08.0
02.5	31386	5836	31159	5906	30934	5977	30710	6048	30488	6120	30268	6192	07.5
03.0	31375	5839	31148	5910	30923	5980	30699	6052	30477	6124	30257	6196	07.0
03.5	31363	5843	31137	5913	30912	5984	30688	6055	30466	6127	30246	6200	06.5
04.0	31352	5846	31125	5917	30900	5988	30677	6059	30455	6131	30235	6203	06.0
04.5	31340	5850	31114	5920	30889	5991	30666	6063	30444	6134	30224	6207	05.5
05.0	31329	5853	31103	5924	30878	5995	30655	6066	30433	6138	30213	6211	05.0
05.5	31318	5857	31091	5927	30867	5998	30644	6070	30422	6142	30202	6214	04.5
06.0	31306	5860	31080	5931	30856	6002	30632	6073	30411	6145	30191	6218	04.0
06.5	31295	5864	31069	5934	30844	6005	30621	6077	30400	6149	30180	6221	03.5
07.0	31284	5867	31058	5938	30833	6009	30610	6080	30389	6153	30169	6225	03.0
07.5	31272	5871	31046	5941	30822	6012	30599	6084	30378	6156	30158	6229	02.5
08.0	31261	5874	31035	5945	30811	6016	30588	6088	30367	6160	30147	6232	02.0
08.5	31250	5878	31024	5948	30800	6020	30577	6091	30356	6163	30136	6236	01.5
09.0	31238	5881	31013	5952	30788	6023	30566	6095	30345	6167	30125	6240	01.0
09.5	31227	5885	31001	5956	30777	6027	30555	6098	30334	6171	30114	6243	00.5
10.0	31216	5888	30990	5959	30766	6030	30544	6102	30323	6174	30103	6247	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
	50'		40'		30'		20'		10'		00'		

150°

30°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	30103	6247	29885	6320	29668	6394	29453	6468	29239	6543	29027	6618	10.0
00.5	30092	6251	29874	6324	29658	6397	29442	6472	29229	6546	29016	6622	09.5
01.0	30081	6254	29863	6327	29647	6401	29432	6475	29218	6550	29006	6625	09.0
01.5	30070	6258	29852	6331	29636	6405	29421	6479	29207	6554	28995	6629	08.5
02.0	30059	6262	29841	6335	29625	6409	29410	6483	29197	6558	28985	6633	08.0
02.5	30048	6265	29831	6338	29614	6412	29400	6487	29186	6561	28974	6637	07.5
03.0	30037	6269	29820	6342	29604	6416	29389	6490	29176	6565	28964	6640	07.0
03.5	30027	6272	29809	6346	29593	6420	29378	6494	29165	6569	28953	6644	06.5
04.0	30016	6276	29798	6350	29582	6423	29367	6498	29154	6573	28942	6648	06.0
04.5	30005	6280	29787	6353	29571	6427	29357	6501	29144	6576	28932	6652	05.5
05.0	29994	6283	29776	6357	29561	6431	29346	6505	29133	6580	28921	6656	05.0
05.5	29983	6287	29766	6361	29550	6435	29335	6509	29122	6584	28911	6659	04.5
06.0	29972	6291	29755	6364	29539	6438	29325	6513	29112	6588	28900	6663	04.0
06.5	29961	6294	29744	6368	29528	6442	29314	6516	29101	6591	28890	6667	03.5
07.0	29950	6298	29733	6372	29518	6446	29303	6520	29091	6595	28879	6671	03.0
07.5	29939	6302	29722	6375	29507	6449	29293	6524	29080	6599	28869	6674	02.5
08.0	29928	6305	29712	6379	29496	6453	29282	6528	29069	6603	28858	6678	02.0
08.5	29918	6309	29701	6383	29485	6457	29271	6531	29059	6606	28848	6682	01.5
09.0	29907	6313	29690	6386	29475	6461	29261	6535	29048	6610	28837	6686	01.0
09.5	29896	6316	29679	6390	29464	6464	29250	6539	29038	6614	28827	6690	00.5
10.0	29885	6320	29668	6394	29453	6468	29239	6543	29027	6618	28816	6693	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

149°

31°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	28816	6693	28607	6770	28398	6846	28191	6923	27986	7001	27782	7079	10.0
00.5	28806	6697	28596	6773	28388	6850	28181	6927	27976	7005	27772	7083	09.5
01.0	28795	6701	28586	6777	28378	6854	28171	6931	27966	7009	27762	7087	09.0
01.5	28785	6705	28575	6781	28367	6858	28161	6935	27955	7013	27751	7091	08.5
02.0	28774	6709	28565	6785	28357	6862	28150	6939	27945	7017	27741	7095	08.0
02.5	28764	6712	28554	6789	28346	6866	28140	6943	27935	7021	27731	7099	07.5
03.0	28753	6716	28544	6793	28336	6869	28130	6947	27925	7024	27721	7103	07.0
03.5	28743	6720	28533	6796	28326	6873	28119	6951	27914	7028	27711	7107	06.5
04.0	28732	6724	28523	6800	28315	6877	28109	6954	27904	7032	27701	7111	06.0
04.5	28722	6728	28513	6804	28305	6881	28099	6958	27894	7036	27690	7115	05.5
05.0	28711	6731	28502	6808	28295	6885	28089	6962	27884	7040	27680	7119	05.0
05.5	28701	6735	28492	6812	28284	6889	28078	6966	27874	7044	27670	7122	04.5
06.0	28690	6739	28481	6816	28274	6892	28068	6970	27863	7048	27660	7126	04.0
06.5	28680	6743	28471	6819	28264	6896	28058	6974	27853	7052	27650	7130	03.5
07.0	28669	6747	28461	6823	28253	6900	28048	6978	27843	7056	27640	7134	03.0
07.5	28659	6751	28450	6827	28243	6904	28037	6982	27833	7060	27630	7138	02.5
08.0	28648	6754	28440	6831	28233	6908	28027	6986	27823	7064	27619	7142	02.0
08.5	28638	6758	28429	6835	28222	6912	28017	6989	27812	7068	27609	7146	01.5
09.0	28627	6762	28419	6839	28212	6916	28006	6993	27802	7071	27599	7150	01.0
09.5	28617	6766	28409	6842	28202	6920	27996	6997	27792	7075	27589	7154	00.5
10.0	28607	6770	28398	6846	28191	6923	27986	7001	27782	7079	27579	7158	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

148°

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32°													
↙	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	27579	7158	27378	7237	27177	7317	26978	7397	26781	7478	26584	7559	10.0
00.5	27569	7162	27367	7241	27167	7321	26968	7401	26771	7482	26574	7563	09.5
01.0	27559	7166	27357	7245	27157	7325	26959	7405	26761	7486	26565	7567	09.0
01.5	27549	7170	27347	7249	27147	7329	26949	7409	26751	7490	26555	7571	08.5
02.0	27539	7174	27337	7253	27137	7333	26939	7413	26741	7494	26545	7575	08.0
02.5	27529	7178	27327	7257	27127	7337	26929	7417	26731	7498	26535	7579	07.5
03.0	27518	7182	27317	7261	27117	7341	26919	7421	26722	7502	26526	7584	07.0
03.5	27508	7186	27307	7265	27108	7345	26909	7425	26712	7506	26516	7588	06.5
04.0	27498	7190	27297	7269	27098	7349	26899	7429	26702	7510	26506	7592	06.0
04.5	27488	7194	27287	7273	27088	7353	26889	7433	26692	7514	26496	7596	05.5
05.0	27478	7197	27277	7277	27078	7357	26879	7437	26682	7518	26487	7600	05.0
05.5	27468	7201	27267	7281	27068	7361	26869	7441	26673	7522	26477	7604	04.5
06.0	27458	7205	27257	7285	27058	7365	26860	7445	26663	7527	26467	7608	04.0
06.5	27448	7209	27247	7289	27048	7369	26850	7450	26653	7531	26457	7612	03.5
07.0	27438	7213	27237	7293	27038	7373	26840	7454	26643	7535	26448	7616	03.0
07.5	27428	7217	27227	7297	27028	7377	26830	7458	26633	7539	26438	7620	02.5
08.0	27418	7221	27217	7301	27018	7381	26820	7462	26623	7543	26428	7624	02.0
08.5	27408	7225	27207	7305	27008	7385	26810	7466	26614	7547	26418	7629	01.5
09.0	27398	7229	27197	7309	26998	7389	26800	7470	26604	7551	26409	7633	01.0
09.5	27388	7233	27187	7313	26988	7393	26791	7474	26594	7555	26399	7637	00.5
10.0	27378	7237	27177	7317	26978	7397	26781	7478	26584	7559	26389	7641	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↗
	50'		40'		30'		20'		10'		00'		

147°

33°													
↙	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	26389	7641	26195	7723	26003	7806	25811	7889	25621	7973	25432	8058	10.0
00.5	26379	7645	26186	7727	25993	7810	25802	7894	25611	7977	25422	8062	09.5
01.0	26370	7649	26176	7731	25983	7814	25792	7898	25602	7982	25413	8066	09.0
01.5	26360	7653	26166	7736	25974	7818	25782	7902	25592	7986	25403	8070	08.5
02.0	26350	7657	26157	7740	25964	7823	25773	7906	25583	7990	25394	8075	08.0
02.5	26341	7661	26147	7744	25955	7827	25763	7910	25573	7994	25385	8079	07.5
03.0	26331	7665	26137	7748	25945	7831	25754	7914	25564	7998	25375	8083	07.0
03.5	26321	7670	26128	7752	25935	7835	25744	7919	25554	8003	25366	8087	06.5
04.0	26311	7674	26118	7756	25926	7839	25735	7923	25545	8007	25356	8092	06.0
04.5	26302	7678	26108	7760	25916	7843	25725	7927	25536	8011	25347	8096	05.5
05.0	26292	7682	26099	7765	25907	7848	25716	7931	25526	8015	25338	8100	05.0
05.5	26282	7686	26089	7769	25897	7852	25706	7935	25517	8020	25328	8104	04.5
06.0	26273	7690	26079	7773	25887	7856	25697	7940	25507	8024	25319	8109	04.0
06.5	26263	7694	26070	7777	25878	7860	25687	7944	25498	8028	25309	8113	03.5
07.0	26253	7698	26060	7781	25868	7864	25678	7948	25488	8032	25300	8117	03.0
07.5	26244	7703	26051	7785	25859	7868	25668	7952	25479	8036	25291	8121	02.5
08.0	26234	7707	26041	7789	25849	7873	25659	7956	25469	8041	25281	8126	02.0
08.5	26224	7711	26031	7794	25840	7877	25649	7961	25460	8045	25272	8130	01.5
09.0	26215	7715	26022	7798	25830	7881	25640	7965	25451	8049	25263	8134	01.0
09.5	26205	7719	26012	7802	25821	7885	25630	7969	25441	8053	25253	8138	00.5
10.0	26195	7723	26003	7806	25811	7889	25621	7973	25432	8058	25244	8143	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↗
	50'		40'		30'		20'		10'		00'		

146°

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34°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	25244	8143	25057	8228	24872	8314	24687	8401	24504	8488	24322	8575	10.0
00.5	25234	8147	25048	8232	24862	8318	24678	8405	24495	8492	24313	8580	09.5
01.0	25225	8151	25039	8237	24853	8323	24669	8409	24486	8496	24304	8584	09.0
01.5	25216	8155	25029	8241	24844	8327	24660	8414	24477	8501	24295	8589	08.5
02.0	25206	8160	25020	8245	24835	8331	24650	8418	24467	8505	24286	8593	08.0
02.5	25197	8164	25011	8250	24825	8336	24641	8422	24458	8510	24276	8597	07.5
03.0	25188	8168	25001	8254	24816	8340	24632	8427	24449	8514	24267	8602	07.0
03.5	25178	8172	24992	8258	24807	8344	24623	8431	24440	8518	24258	8606	06.5
04.0	25169	8177	24983	8262	24798	8349	24614	8435	24431	8523	24249	8611	06.0
04.5	25160	8181	24973	8267	24788	8353	24605	8440	24422	8527	24240	8615	05.5
05.0	25150	8185	24964	8271	24779	8357	24595	8444	24413	8531	24231	8619	05.0
05.5	25141	8190	24955	8275	24770	8362	24586	8448	24404	8536	24222	8624	04.5
06.0	25132	8194	24946	8280	24761	8366	24577	8453	24395	8540	24213	8628	04.0
06.5	25122	8198	24936	8284	24752	8370	24568	8457	24385	8545	24204	8633	03.5
07.0	25113	8202	24927	8288	24742	8375	24559	8462	24376	8549	24195	8637	03.0
07.5	25104	8207	24918	8293	24733	8379	24550	8466	24367	8553	24186	8641	02.5
08.0	25094	8211	24909	8297	24724	8383	24541	8470	24358	8558	24177	8646	02.0
08.5	25085	8215	24899	8301	24715	8388	24531	8475	24349	8562	24168	8650	01.5
09.0	25076	8219	24890	8305	24706	8392	24522	8479	24340	8567	24159	8655	01.0
09.5	25066	8224	24881	8310	24696	8396	24513	8483	24331	8571	24150	8659	00.5
10.0	25057	8228	24872	8314	24687	8401	24504	8488	24322	8575	24141	8664	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

145°

35°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	24141	8664	23961	8752	23782	8842	23605	8931	23428	9022	23253	9113	10.0
00.5	24132	8668	23952	8757	23773	8846	23596	8936	23419	9026	23244	9117	09.5
01.0	24123	8672	23943	8761	23764	8851	23587	8940	23410	9031	23235	9122	09.0
01.5	24114	8677	23934	8766	23756	8855	23578	8945	23402	9035	23226	9126	08.5
02.0	24105	8681	23925	8770	23747	8859	23569	8949	23393	9040	23218	9131	08.0
02.5	24096	8686	23916	8775	23738	8864	23560	8954	23384	9044	23209	9136	07.5
03.0	24087	8690	23907	8779	23729	8868	23552	8958	23375	9049	23200	9140	07.0
03.5	24078	8695	23898	8783	23720	8873	23543	8963	23366	9054	23191	9145	06.5
04.0	24069	8699	23889	8788	23711	8877	23534	8967	23358	9058	23183	9149	06.0
04.5	24060	8703	23880	8792	23702	8882	23525	8972	23349	9063	23174	9154	05.5
05.0	24051	8708	23871	8797	23693	8886	23516	8977	23340	9067	23165	9158	05.0
05.5	24042	8712	23863	8801	23684	8891	23507	8981	23331	9072	23156	9163	04.5
06.0	24033	8717	23854	8806	23676	8895	23499	8986	23323	9076	23148	9168	04.0
06.5	24024	8721	23845	8810	23667	8900	23490	8990	23314	9081	23139	9172	03.5
07.0	24015	8726	23836	8815	23658	8904	23481	8995	23305	9085	23130	9177	03.0
07.5	24006	8730	23827	8819	23649	8909	23472	8999	23296	9090	23122	9181	02.5
08.0	23997	8734	23818	8824	23640	8913	23463	9004	23288	9094	23113	9186	02.0
08.5	23988	8739	23809	8828	23631	8918	23454	9008	23279	9099	23104	9190	01.5
09.0	23979	8743	23800	8833	23622	8922	23446	9013	23270	9104	23096	9195	01.0
09.5	23970	8748	23791	8837	23613	8927	23437	9017	23261	9108	23087	9200	00.5
10.0	23961	8752	23782	8842	23605	8931	23428	9022	23253	9113	23078	9204	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

144°

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36°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	23078	9204	22905	9296	22732	9389	22561	9482	22391	9576	22222	9670	10.0
00.5	23069	9209	22896	9301	22724	9394	22553	9487	22383	9581	22213	9675	09.5
01.0	23061	9213	22888	9306	22715	9398	22544	9491	22374	9585	22205	9680	09.0
01.5	23052	9218	22879	9310	22707	9403	22536	9496	22366	9590	22197	9684	08.5
02.0	23043	9223	22870	9315	22698	9408	22527	9501	22357	9595	22188	9689	08.0
02.5	23035	9227	22862	9319	22690	9412	22519	9506	22349	9599	22180	9694	07.5
03.0	23026	9232	22853	9324	22681	9417	22510	9510	22340	9604	22171	9699	07.0
03.5	23017	9236	22844	9329	22672	9421	22502	9515	22332	9609	22163	9703	06.5
04.0	23009	9241	22836	9333	22664	9426	22493	9520	22323	9614	22154	9708	06.0
04.5	23000	9246	22827	9338	22655	9431	22485	9524	22315	9618	22146	9713	05.5
05.0	22991	9250	22819	9343	22647	9435	22476	9529	22306	9623	22138	9718	05.0
05.5	22983	9255	22810	9347	22638	9440	22467	9534	22298	9628	22129	9722	04.5
06.0	22974	9259	22801	9352	22630	9445	22459	9538	22289	9632	22121	9727	04.0
06.5	22965	9264	22793	9356	22621	9449	22450	9543	22281	9637	22112	9732	03.5
07.0	22957	9269	22784	9361	22613	9454	22442	9548	22272	9642	22104	9737	03.0
07.5	22948	9273	22775	9366	22604	9459	22433	9552	22264	9647	22096	9741	02.5
08.0	22939	9278	22767	9370	22595	9463	22425	9557	22256	9651	22087	9746	02.0
08.5	22931	9282	22758	9375	22587	9468	22416	9562	22247	9656	22079	9751	01.5
09.0	22922	9287	22750	9380	22578	9473	22408	9566	22239	9661	22070	9756	01.0
09.5	22913	9292	22741	9384	22570	9477	22400	9571	22230	9665	22062	9760	00.5
10.0	22905	9296	22732	9389	22561	9482	22391	9576	22222	9670	22054	9765	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

143°

37°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	22054	9765	21887	9861	21720	9957	21555	10053	21391	10151	21228	10248	10.0
00.5	22045	9770	21878	9865	21712	9962	21547	10058	21383	10155	21220	10253	09.5
01.0	22037	9775	21870	9870	21704	9966	21539	10063	21375	10160	21212	10258	09.0
01.5	22029	9779	21862	9875	21696	9971	21531	10068	21367	10165	21204	10263	08.5
02.0	22020	9784	21853	9880	21687	9976	21522	10073	21358	10170	21195	10268	08.0
02.5	22012	9789	21845	9885	21679	9981	21514	10078	21350	10175	21187	10273	07.5
03.0	22003	9794	21837	9889	21671	9986	21506	10082	21342	10180	21179	10278	07.0
03.5	21995	9798	21828	9894	21663	9990	21498	10087	21334	10185	21171	10283	06.5
04.0	21987	9803	21820	9899	21654	9995	21490	10092	21326	10190	21163	10288	06.0
04.5	21978	9808	21812	9904	21646	10000	21481	10097	21318	10195	21155	10293	05.5
05.0	21970	9813	21803	9909	21638	10005	21473	10102	21309	10199	21147	10298	05.0
05.5	21962	9818	21795	9913	21629	10010	21465	10107	21301	10204	21139	10302	04.5
06.0	21953	9822	21787	9918	21621	10015	21457	10112	21293	10209	21131	10307	04.0
06.5	21945	9827	21778	9923	21613	10019	21448	10116	21285	10214	21122	10312	03.5
07.0	21937	9832	21770	9928	21605	10024	21440	10121	21277	10219	21114	10317	03.0
07.5	21928	9837	21762	9933	21596	10029	21432	10126	21269	10224	21106	10322	02.5
08.0	21920	9841	21754	9937	21588	10034	21424	10131	21261	10229	21098	10327	02.0
08.5	21912	9846	21745	9942	21580	10039	21416	10136	21252	10234	21090	10332	01.5
09.0	21903	9851	21737	9947	21572	10044	21408	10141	21244	10239	21082	10337	01.0
09.5	21895	9856	21729	9952	21564	10048	21399	10146	21236	10243	21074	10342	00.5
10.0	21887	9861	21720	9957	21555	10053	21391	10151	21228	10248	21066	10347	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

142°

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38°

	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	21066	10347	20905	10446	20744	10545	20585	10646	20427	10746	20269	10848	10.0
00.5	21058	10352	20897	10451	20736	10550	20577	10651	20419	10751	20261	10853	09.5
01.0	21050	10357	20889	10456	20728	10555	20569	10656	20411	10756	20254	10858	09.0
01.5	21042	10362	20880	10461	20720	10560	20561	10661	20403	10762	20246	10863	08.5
02.0	21033	10367	20872	10466	20712	10565	20553	10666	20395	10767	20238	10868	08.0
02.5	21025	10371	20864	10471	20704	10570	20545	10671	20387	10772	20230	10873	07.5
03.0	21017	10376	20856	10476	20696	10575	20537	10676	20379	10777	20222	10878	07.0
03.5	21009	10381	20848	10481	20688	10580	20530	10681	20371	10782	20214	10883	06.5
04.0	21001	10386	20840	10486	20681	10585	20522	10686	20364	10787	20207	10888	06.0
04.5	20993	10391	20832	10491	20673	10590	20514	10691	20356	10792	20199	10894	05.5
05.0	20985	10396	20824	10496	20665	10595	20506	10696	20348	10797	20191	10899	05.0
05.5	20977	10401	20816	10500	20657	10600	20498	10701	20340	10802	20183	10904	04.5
06.0	20969	10406	20808	10505	20649	10605	20490	10706	20332	10807	20175	10909	04.0
06.5	20961	10411	20800	10510	20641	10610	20482	10711	20324	10812	20167	10914	03.5
07.0	20953	10416	20792	10515	20633	10615	20474	10716	20316	10817	20160	10919	03.0
07.5	20945	10421	20784	10520	20625	10620	20466	10721	20309	10822	20152	10924	02.5
08.0	20937	10426	20776	10525	20617	10625	20458	10726	20301	10827	20144	10929	02.0
08.5	20929	10431	20768	10530	20609	10630	20450	10731	20293	10832	20136	10934	01.5
09.0	20921	10436	20760	10535	20601	10636	20442	10736	20285	10838	20128	10940	01.0
09.5	20913	10441	20752	10540	20593	10641	20435	10741	20277	10843	20121	10945	00.5
10.0	20905	10446	20744	10545	20585	10646	20427	10746	20269	10848	20113	10950	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
	50'		40'		30'		20'		10'		00'		

141°

39°

	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	20113	10950	19957	11052	19803	11156	19649	11259	19496	11364	19344	11469	10.0
00.5	20105	10955	19950	11057	19795	11161	19641	11265	19489	11369	19337	11474	09.5
01.0	20097	10960	19942	11063	19787	11166	19634	11270	19481	11374	19329	11479	09.0
01.5	20089	10965	19934	11068	19780	11171	19626	11275	19473	11380	19322	11485	08.5
02.0	20082	10970	19926	11073	19772	11176	19618	11280	19466	11385	19314	11490	08.0
02.5	20074	10975	19919	11078	19764	11181	19611	11285	19458	11390	19306	11495	07.5
03.0	20066	10980	19911	11083	19756	11187	19603	11291	19450	11395	19299	11501	07.0
03.5	20058	10986	19903	11088	19749	11192	19595	11296	19443	11401	19291	11506	06.5
04.0	20050	10991	19895	11094	19741	11197	19588	11301	19435	11406	19284	11511	06.0
04.5	20043	10996	19888	11099	19733	11202	19580	11306	19428	11411	19276	11516	05.5
05.0	20035	11001	19880	11104	19726	11207	19572	11312	19420	11416	19269	11522	05.0
05.5	20027	11006	19872	11109	19718	11213	19565	11317	19412	11422	19261	11527	04.5
06.0	20019	11011	19864	11114	19710	11218	19557	11322	19405	11427	19254	11532	04.0
06.5	20012	11016	19857	11119	19703	11223	19550	11327	19397	11432	19246	11538	03.5
07.0	20004	11022	19849	11125	19695	11228	19542	11332	19390	11437	19238	11543	03.0
07.5	19996	11027	19841	11130	19687	11233	19534	11338	19382	11443	19231	11548	02.5
08.0	19988	11032	19834	11135	19680	11239	19527	11343	19375	11448	19223	11553	02.0
08.5	19981	11037	19826	11140	19672	11244	19519	11348	19367	11453	19216	11559	01.5
09.0	19973	11042	19818	11145	19664	11249	19511	11353	19359	11458	19208	11564	01.0
09.5	19965	11047	19810	11150	19657	11254	19504	11359	19352	11464	19201	11569	00.5
10.0	19957	11052	19803	11156	19649	11259	19496	11364	19344	11469	19193	11575	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
	50'		40'		30'		20'		10'		00'		

140°

40°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	19193	11575	19043	11681	18894	11788	18746	11895	18598	12004	18451	12113	10.0
00.5	19186	11580	19036	11686	18886	11793	18738	11901	18591	12009	18444	12118	09.5
01.0	19178	11585	19028	11692	18879	11799	18731	11906	18583	12015	18437	12123	09.0
01.5	19171	11591	19021	11697	18872	11804	18723	11912	18576	12020	18430	12129	08.5
02.0	19163	11596	19013	11702	18864	11809	18716	11917	18569	12025	18422	12134	08.0
02.5	19156	11601	19006	11708	18857	11815	18709	11922	18561	12031	18415	12140	07.5
03.0	19148	11606	18998	11713	18849	11820	18701	11928	18554	12036	18408	12145	07.0
03.5	19141	11612	18991	11718	18842	11825	18694	11933	18547	12042	18400	12151	06.5
04.0	19133	11617	18983	11724	18834	11831	18686	11939	18539	12047	18393	12156	06.0
04.5	19126	11622	18976	11729	18827	11836	18679	11944	18532	12053	18386	12162	05.5
05.0	19118	11628	18968	11734	18820	11842	18672	11949	18525	12058	18378	12167	05.0
05.5	19111	11633	18961	11740	18812	11847	18664	11955	18517	12063	18371	12173	04.5
06.0	19103	11638	18953	11745	18805	11852	18657	11960	18510	12069	18364	12178	04.0
06.5	19096	11644	18946	11750	18797	11858	18650	11966	18503	12074	18357	12184	03.5
07.0	19088	11649	18939	11756	18790	11863	18642	11971	18495	12080	18349	12189	03.0
07.5	19081	11654	18931	11761	18783	11868	18635	11977	18488	12085	18342	12195	02.5
08.0	19073	11660	18924	11766	18775	11874	18628	11982	18481	12091	18335	12200	02.0
08.5	19066	11665	18916	11772	18768	11879	18620	11987	18473	12096	18328	12206	01.5
09.0	19058	11670	18909	11777	18760	11885	18613	11993	18466	12102	18320	12211	01.0
09.5	19051	11676	18901	11783	18753	11890	18605	11998	18459	12107	18313	12217	00.5
10.0	19043	11681	18894	11788	18746	11895	18598	12004	18451	12113	18306	12222	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

139°

41°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	18306	12222	18161	12332	18017	12443	17874	12554	17731	12666	17590	12779	10.0
00.5	18298	12228	18154	12338	18010	12449	17866	12560	17724	12672	17583	12785	09.5
01.0	18291	12233	18146	12343	18002	12454	17859	12566	17717	12678	17576	12791	09.0
01.5	18284	12238	18139	12349	17995	12460	17852	12571	17710	12683	17568	12796	08.5
02.0	18277	12244	18132	12354	17988	12465	17845	12577	17703	12689	17561	12802	08.0
02.5	18269	12249	18125	12360	17981	12471	17838	12582	17696	12695	17554	12808	07.5
03.0	18262	12255	18118	12365	17974	12476	17831	12588	17689	12700	17547	12813	07.0
03.5	18255	12260	18110	12371	17967	12482	17824	12594	17682	12706	17540	12819	06.5
04.0	18248	12266	18103	12376	17959	12487	17816	12599	17674	12712	17533	12825	06.0
04.5	18240	12271	18096	12382	17952	12493	17809	12605	17667	12717	17526	12830	05.5
05.0	18233	12277	18089	12387	17945	12499	17802	12610	17660	12723	17519	12836	05.0
05.5	18226	12283	18081	12393	17938	12504	17795	12616	17653	12728	17512	12842	04.5
06.0	18219	12288	18074	12399	17931	12510	17788	12622	17646	12734	17505	12847	04.0
06.5	18211	12294	18067	12404	17924	12515	17781	12627	17639	12740	17498	12853	03.5
07.0	18204	12299	18060	12410	17916	12521	17774	12633	17632	12745	17491	12859	03.0
07.5	18197	12305	18053	12415	17909	12526	17767	12638	17625	12751	17484	12864	02.5
08.0	18190	12310	18045	12421	17902	12532	17760	12644	17618	12757	17477	12870	02.0
08.5	18182	12316	18038	12426	17895	12538	17752	12650	17611	12762	17470	12876	01.5
09.0	18175	12321	18031	12432	17888	12543	17745	12655	17604	12768	17463	12881	01.0
09.5	18168	12327	18024	12437	17881	12549	17738	12661	17597	12774	17456	12887	00.5
10.0	18161	12332	18017	12443	17874	12554	17731	12666	17590	12779	17449	12893	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

138°

Warning: This page has been generated by a computer program. Complex computer programs usually have bugs and may produce wrong data. The data on this page is believed to be accurate but no warranty is given for its correctness. Use it only for training and exercising!

42°													
↙	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	17449	12893	17309	13007	17170	13121	17032	13237	16894	13353	16758	13470	10.0
00.5	17442	12898	17302	13012	17163	13127	17025	13243	16887	13359	16751	13476	09.5
01.0	17435	12904	17295	13018	17156	13133	17018	13248	16880	13365	16744	13482	09.0
01.5	17428	12910	17288	13024	17149	13139	17011	13254	16874	13370	16737	13487	08.5
02.0	17421	12915	17281	13030	17142	13145	17004	13260	16867	13376	16730	13493	08.0
02.5	17414	12921	17274	13035	17135	13150	16997	13266	16860	13382	16723	13499	07.5
03.0	17407	12927	17267	13041	17128	13156	16990	13272	16853	13388	16717	13505	07.0
03.5	17400	12933	17260	13047	17121	13162	16983	13277	16846	13394	16710	13511	06.5
04.0	17393	12938	17253	13053	17115	13168	16977	13283	16839	13400	16703	13517	06.0
04.5	17386	12944	17246	13058	17108	13173	16970	13289	16833	13405	16696	13523	05.5
05.0	17379	12950	17239	13064	17101	13179	16963	13295	16826	13411	16690	13528	05.0
05.5	17372	12955	17232	13070	17094	13185	16956	13301	16819	13417	16683	13534	04.5
06.0	17365	12961	17225	13076	17087	13191	16949	13306	16812	13423	16676	13540	04.0
06.5	17358	12967	17219	13081	17080	13196	16942	13312	16805	13429	16669	13546	03.5
07.0	17351	12972	17212	13087	17073	13202	16935	13318	16798	13435	16662	13552	03.0
07.5	17344	12978	17205	13093	17066	13208	16928	13324	16792	13441	16656	13558	02.5
08.0	17337	12984	17198	13098	17059	13214	16922	13330	16785	13446	16649	13564	02.0
08.5	17330	12990	17191	13104	17052	13220	16915	13336	16778	13452	16642	13570	01.5
09.0	17323	12995	17184	13110	17045	13225	16908	13341	16771	13458	16635	13575	01.0
09.5	17316	13001	17177	13116	17039	13231	16901	13347	16764	13464	16628	13581	00.5
10.0	17309	13007	17170	13121	17032	13237	16894	13353	16758	13470	16622	13587	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↗
	50'		40'		30'		20'		10'		00'		
137°													

43°													
↙	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	16622	13587	16487	13705	16352	13824	16219	13944	16086	14064	15954	14185	10.0
00.5	16615	13593	16480	13711	16346	13830	16212	13950	16079	14070	15947	14191	09.5
01.0	16608	13599	16473	13717	16339	13836	16205	13956	16073	14076	15941	14197	09.0
01.5	16601	13605	16466	13723	16332	13842	16199	13962	16066	14082	15934	14203	08.5
02.0	16595	13611	16460	13729	16326	13848	16192	13968	16060	14088	15928	14209	08.0
02.5	16588	13617	16453	13735	16319	13854	16186	13974	16053	14094	15921	14215	07.5
03.0	16581	13623	16446	13741	16312	13860	16179	13980	16046	14100	15915	14221	07.0
03.5	16574	13629	16439	13747	16305	13866	16172	13986	16040	14106	15908	14227	06.5
04.0	16568	13634	16433	13753	16299	13872	16166	13992	16033	14112	15902	14234	06.0
04.5	16561	13640	16426	13759	16292	13878	16159	13998	16027	14118	15895	14240	05.5
05.0	16554	13646	16419	13765	16285	13884	16152	14004	16020	14124	15888	14246	05.0
05.5	16547	13652	16413	13771	16279	13890	16146	14010	16013	14130	15882	14252	04.5
06.0	16541	13658	16406	13777	16272	13896	16139	14016	16007	14136	15875	14258	04.0
06.5	16534	13664	16399	13783	16265	13902	16132	14022	16000	14143	15869	14264	03.5
07.0	16527	13670	16392	13789	16259	13908	16126	14028	15994	14149	15862	14270	03.0
07.5	16520	13676	16386	13794	16252	13914	16119	14034	15987	14155	15856	14276	02.5
08.0	16514	13682	16379	13800	16245	13920	16113	14040	15980	14161	15849	14282	02.0
08.5	16507	13688	16372	13806	16239	13926	16106	14046	15974	14167	15843	14288	01.5
09.0	16500	13694	16366	13812	16232	13932	16099	14052	15967	14173	15836	14294	01.0
09.5	16493	13699	16359	13818	16225	13938	16093	14058	15961	14179	15829	14300	00.5
10.0	16487	13705	16352	13824	16219	13944	16086	14064	15954	14185	15823	14307	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↗
	50'		40'		30'		20'		10'		00'		
136°													

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44°

	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	15823	14307	15692	14429	15563	14552	15434	14676	15306	14800	15178	14926	10.0
00.5	15816	14313	15686	14435	15556	14558	15427	14682	15299	14807	15172	14932	09.5
01.0	15810	14319	15679	14441	15550	14564	15421	14688	15293	14813	15165	14938	09.0
01.5	15803	14325	15673	14447	15543	14571	15415	14694	15286	14819	15159	14944	08.5
02.0	15797	14331	15666	14453	15537	14577	15408	14701	15280	14825	15153	14951	08.0
02.5	15790	14337	15660	14460	15530	14583	15402	14707	15274	14832	15146	14957	07.5
03.0	15784	14343	15653	14466	15524	14589	15395	14713	15267	14838	15140	14963	07.0
03.5	15777	14349	15647	14472	15518	14595	15389	14719	15261	14844	15134	14970	06.5
04.0	15771	14355	15640	14478	15511	14601	15382	14726	15255	14850	15127	14976	06.0
04.5	15764	14362	15634	14484	15505	14608	15376	14732	15248	14857	15121	14982	05.5
05.0	15758	14368	15627	14490	15498	14614	15370	14738	15242	14863	15115	14988	05.0
05.5	15751	14374	15621	14497	15492	14620	15363	14744	15235	14869	15108	14995	04.5
06.0	15745	14380	15615	14503	15485	14626	15357	14750	15229	14875	15102	15001	04.0
06.5	15738	14386	15608	14509	15479	14632	15350	14757	15223	14882	15096	15007	03.5
07.0	15731	14392	15602	14515	15472	14639	15344	14763	15216	14888	15089	15014	03.0
07.5	15725	14398	15595	14521	15466	14645	15338	14769	15210	14894	15083	15020	02.5
08.0	15718	14404	15589	14527	15460	14651	15331	14775	15204	14900	15077	15026	02.0
08.5	15712	14411	15582	14534	15453	14657	15325	14782	15197	14907	15070	15033	01.5
09.0	15705	14417	15576	14540	15447	14663	15318	14788	15191	14913	15064	15039	01.0
09.5	15699	14423	15569	14546	15440	14670	15312	14794	15185	14919	15058	15045	00.5
10.0	15692	14429	15563	14552	15434	14676	15306	14800	15178	14926	15051	15051	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
	50'		40'		30'		20'		10'		00'		

135°

	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	15051	15051	14926	15178	14800	15306	14676	15434	14552	15563	14429	15692	10.0
00.5	15045	15058	14919	15185	14794	15312	14670	15440	14546	15569	14423	15699	09.5
01.0	15039	15064	14913	15191	14788	15318	14663	15447	14540	15576	14417	15705	09.0
01.5	15033	15070	14907	15197	14782	15325	14657	15453	14534	15582	14411	15712	08.5
02.0	15026	15077	14900	15204	14775	15331	14651	15460	14527	15589	14404	15718	08.0
02.5	15020	15083	14894	15210	14769	15338	14645	15466	14521	15595	14398	15725	07.5
03.0	15014	15089	14888	15216	14763	15344	14639	15472	14515	15602	14392	15731	07.0
03.5	15007	15096	14882	15223	14757	15350	14632	15479	14509	15608	14386	15738	06.5
04.0	15001	15102	14875	15229	14750	15357	14626	15485	14503	15615	14380	15745	06.0
04.5	14995	15108	14869	15235	14744	15363	14620	15492	14497	15621	14374	15751	05.5
05.0	14988	15115	14863	15242	14738	15370	14614	15498	14490	15627	14368	15758	05.0
05.5	14982	15121	14857	15248	14732	15376	14608	15505	14484	15634	14362	15764	04.5
06.0	14976	15127	14850	15255	14726	15382	14601	15511	14478	15640	14355	15771	04.0
06.5	14970	15134	14844	15261	14719	15389	14595	15518	14472	15647	14349	15777	03.5
07.0	14963	15140	14838	15267	14713	15395	14589	15524	14466	15653	14343	15784	03.0
07.5	14957	15146	14832	15274	14707	15402	14583	15530	14460	15660	14337	15790	02.5
08.0	14951	15153	14825	15280	14701	15408	14577	15537	14453	15666	14331	15797	02.0
08.5	14944	15159	14819	15286	14694	15415	14571	15543	14447	15673	14325	15803	01.5
09.0	14938	15165	14813	15293	14688	15421	14564	15550	14441	15679	14319	15810	01.0
09.5	14932	15172	14807	15299	14682	15427	14558	15556	14435	15686	14313	15816	00.5
10.0	14926	15178	14800	15306	14676	15434	14552	15563	14429	15692	14307	15823	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
	50'		40'		30'		20'		10'		00'		

134°

46°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	14307	15823	14185	15954	14064	16086	13944	16219	13824	16352	13705	16487	10.0
00.5	14300	15829	14179	15961	14058	16093	13938	16225	13818	16359	13699	16493	09.5
01.0	14294	15836	14173	15967	14052	16099	13932	16232	13812	16366	13694	16500	09.0
01.5	14288	15843	14167	15974	14046	16106	13926	16239	13806	16372	13688	16507	08.5
02.0	14282	15849	14161	15980	14040	16113	13920	16245	13800	16379	13682	16514	08.0
02.5	14276	15856	14155	15987	14034	16119	13914	16252	13794	16386	13676	16520	07.5
03.0	14270	15862	14149	15994	14028	16126	13908	16259	13789	16392	13670	16527	07.0
03.5	14264	15869	14143	16000	14022	16132	13902	16265	13783	16399	13664	16534	06.5
04.0	14258	15875	14136	16007	14016	16139	13896	16272	13777	16406	13658	16541	06.0
04.5	14252	15882	14130	16013	14010	16146	13890	16279	13771	16413	13652	16547	05.5
05.0	14246	15888	14124	16020	14004	16152	13884	16285	13765	16419	13646	16554	05.0
05.5	14240	15895	14118	16027	13998	16159	13878	16292	13759	16426	13640	16561	04.5
06.0	14234	15902	14112	16033	13992	16166	13872	16299	13753	16433	13634	16568	04.0
06.5	14227	15908	14106	16040	13986	16172	13866	16305	13747	16439	13629	16574	03.5
07.0	14221	15915	14100	16046	13980	16179	13860	16312	13741	16446	13623	16581	03.0
07.5	14215	15921	14094	16053	13974	16186	13854	16319	13735	16453	13617	16588	02.5
08.0	14209	15928	14088	16060	13968	16192	13848	16326	13729	16460	13611	16595	02.0
08.5	14203	15934	14082	16066	13962	16199	13842	16332	13723	16466	13605	16601	01.5
09.0	14197	15941	14076	16073	13956	16205	13836	16339	13717	16473	13599	16608	01.0
09.5	14191	15947	14070	16079	13950	16212	13830	16346	13711	16480	13593	16615	00.5
10.0	14185	15954	14064	16086	13944	16219	13824	16352	13705	16487	13587	16622	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

133°

47°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	13587	16622	13470	16758	13353	16894	13237	17032	13121	17170	13007	17309	10.0
00.5	13581	16628	13464	16764	13347	16901	13231	17039	13116	17177	13001	17316	09.5
01.0	13575	16635	13458	16771	13341	16908	13225	17045	13110	17184	12995	17323	09.0
01.5	13570	16642	13452	16778	13336	16915	13220	17052	13104	17191	12990	17330	08.5
02.0	13564	16649	13446	16785	13330	16922	13214	17059	13098	17198	12984	17337	08.0
02.5	13558	16656	13441	16792	13324	16928	13208	17066	13093	17205	12978	17344	07.5
03.0	13552	16662	13435	16798	13318	16935	13202	17073	13087	17212	12972	17351	07.0
03.5	13546	16669	13429	16805	13312	16942	13196	17080	13081	17219	12967	17358	06.5
04.0	13540	16676	13423	16812	13306	16949	13191	17087	13076	17225	12961	17365	06.0
04.5	13534	16683	13417	16819	13301	16956	13185	17094	13070	17232	12955	17372	05.5
05.0	13528	16690	13411	16826	13295	16963	13179	17101	13064	17239	12950	17379	05.0
05.5	13523	16696	13405	16833	13289	16970	13173	17108	13058	17246	12944	17386	04.5
06.0	13517	16703	13400	16839	13283	16977	13168	17115	13053	17253	12938	17393	04.0
06.5	13511	16710	13394	16846	13277	16983	13162	17121	13047	17260	12933	17400	03.5
07.0	13505	16717	13388	16853	13272	16990	13156	17128	13041	17267	12927	17407	03.0
07.5	13499	16723	13382	16860	13266	16997	13150	17135	13035	17274	12921	17414	02.5
08.0	13493	16730	13376	16867	13260	17004	13145	17142	13030	17281	12915	17421	02.0
08.5	13487	16737	13370	16874	13254	17011	13139	17149	13024	17288	12910	17428	01.5
09.0	13482	16744	13365	16880	13248	17018	13133	17156	13018	17295	12904	17435	01.0
09.5	13476	16751	13359	16887	13243	17025	13127	17163	13012	17302	12898	17442	00.5
10.0	13470	16758	13353	16894	13237	17032	13121	17170	13007	17309	12893	17449	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

132°

48°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	12893	17449	12779	17590	12666	17731	12554	17874	12443	18017	12332	18161	10.0
00.5	12887	17456	12774	17597	12661	17738	12549	17881	12437	18024	12327	18168	09.5
01.0	12881	17463	12768	17604	12655	17745	12543	17888	12432	18031	12321	18175	09.0
01.5	12876	17470	12762	17611	12650	17752	12538	17895	12426	18038	12316	18182	08.5
02.0	12870	17477	12757	17618	12644	17760	12532	17902	12421	18045	12310	18190	08.0
02.5	12864	17484	12751	17625	12638	17767	12526	17909	12415	18053	12305	18197	07.5
03.0	12859	17491	12745	17632	12633	17774	12521	17916	12410	18060	12299	18204	07.0
03.5	12853	17498	12740	17639	12627	17781	12515	17924	12404	18067	12294	18211	06.5
04.0	12847	17505	12734	17646	12622	17788	12510	17931	12399	18074	12288	18219	06.0
04.5	12842	17512	12728	17653	12616	17795	12504	17938	12393	18081	12283	18226	05.5
05.0	12836	17519	12723	17660	12610	17802	12499	17945	12387	18089	12277	18233	05.0
05.5	12830	17526	12717	17667	12605	17809	12493	17952	12382	18096	12271	18240	04.5
06.0	12825	17533	12712	17674	12599	17816	12487	17959	12376	18103	12266	18248	04.0
06.5	12819	17540	12706	17682	12594	17824	12482	17967	12371	18110	12260	18255	03.5
07.0	12813	17547	12700	17689	12588	17831	12476	17974	12365	18118	12255	18262	03.0
07.5	12808	17554	12695	17696	12582	17838	12471	17981	12360	18125	12249	18269	02.5
08.0	12802	17561	12689	17703	12577	17845	12465	17988	12354	18132	12244	18277	02.0
08.5	12796	17568	12683	17710	12571	17852	12460	17995	12349	18139	12238	18284	01.5
09.0	12791	17576	12678	17717	12566	17859	12454	18002	12343	18146	12233	18291	01.0
09.5	12785	17583	12672	17724	12560	17866	12449	18010	12338	18154	12228	18298	00.5
10.0	12779	17590	12666	17731	12554	17874	12443	18017	12332	18161	12222	18306	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

131°

49°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	12222	18306	12113	18451	12004	18598	11895	18746	11788	18894	11681	19043	10.0
00.5	12217	18313	12107	18459	11998	18605	11890	18753	11783	18901	11676	19051	09.5
01.0	12211	18320	12102	18466	11993	18613	11885	18760	11777	18909	11670	19058	09.0
01.5	12206	18328	12096	18473	11987	18620	11879	18768	11772	18916	11665	19066	08.5
02.0	12200	18335	12091	18481	11982	18628	11874	18775	11766	18924	11660	19073	08.0
02.5	12195	18342	12085	18488	11977	18635	11868	18783	11761	18931	11654	19081	07.5
03.0	12189	18349	12080	18495	11971	18642	11863	18790	11756	18939	11649	19088	07.0
03.5	12184	18357	12074	18503	11966	18650	11858	18797	11750	18946	11644	19096	06.5
04.0	12178	18364	12069	18510	11960	18657	11852	18805	11745	18953	11638	19103	06.0
04.5	12173	18371	12063	18517	11955	18664	11847	18812	11740	18961	11633	19111	05.5
05.0	12167	18378	12058	18525	11949	18672	11842	18820	11734	18968	11628	19118	05.0
05.5	12162	18386	12053	18532	11944	18679	11836	18827	11729	18976	11622	19126	04.5
06.0	12156	18393	12047	18539	11939	18686	11831	18834	11724	18983	11617	19133	04.0
06.5	12151	18400	12042	18547	11933	18694	11825	18842	11718	18991	11612	19141	03.5
07.0	12145	18408	12036	18554	11928	18701	11820	18849	11713	18998	11606	19148	03.0
07.5	12140	18415	12031	18561	11922	18709	11815	18857	11708	19006	11601	19156	02.5
08.0	12134	18422	12025	18569	11917	18716	11809	18864	11702	19013	11596	19163	02.0
08.5	12129	18430	12020	18576	11912	18723	11804	18872	11697	19021	11591	19171	01.5
09.0	12123	18437	12015	18583	11906	18731	11799	18879	11692	19028	11585	19178	01.0
09.5	12118	18444	12009	18591	11901	18738	11793	18886	11686	19036	11580	19186	00.5
10.0	12113	18451	12004	18598	11895	18746	11788	18894	11681	19043	11575	19193	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

130°

Warning: This page has been generated by a computer program. Complex computer programs usually have bugs and may produce wrong data. The data on this page is believed to be accurate but no warranty is given for it's correctness. Use it only for training and exercising!

50°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	11575	19193	11469	19344	11364	19496	11259	19649	11156	19803	11052	19957	10.0
00.5	11569	19201	11464	19352	11359	19504	11254	19657	11150	19810	11047	19965	09.5
01.0	11564	19208	11458	19359	11353	19511	11249	19664	11145	19818	11042	19973	09.0
01.5	11559	19216	11453	19367	11348	19519	11244	19672	11140	19826	11037	19981	08.5
02.0	11553	19223	11448	19375	11343	19527	11239	19680	11135	19834	11032	19988	08.0
02.5	11548	19231	11443	19382	11338	19534	11233	19687	11130	19841	11027	19996	07.5
03.0	11543	19238	11437	19390	11332	19542	11228	19695	11125	19849	11022	20004	07.0
03.5	11538	19246	11432	19397	11327	19550	11223	19703	11119	19857	11016	20012	06.5
04.0	11532	19254	11427	19405	11322	19557	11218	19710	11114	19864	11011	20019	06.0
04.5	11527	19261	11422	19412	11317	19565	11213	19718	11109	19872	11006	20027	05.5
05.0	11522	19269	11416	19420	11312	19572	11207	19726	11104	19880	11001	20035	05.0
05.5	11516	19276	11411	19428	11306	19580	11202	19733	11099	19888	10996	20043	04.5
06.0	11511	19284	11406	19435	11301	19588	11197	19741	11094	19895	10991	20050	04.0
06.5	11506	19291	11401	19443	11296	19595	11192	19749	11088	19903	10986	20058	03.5
07.0	11501	19299	11395	19450	11291	19603	11187	19756	11083	19911	10980	20066	03.0
07.5	11495	19306	11390	19458	11285	19611	11181	19764	11078	19919	10975	20074	02.5
08.0	11490	19314	11385	19466	11280	19618	11176	19772	11073	19926	10970	20082	02.0
08.5	11485	19322	11380	19473	11275	19626	11171	19780	11068	19934	10965	20089	01.5
09.0	11479	19329	11374	19481	11270	19634	11166	19787	11063	19942	10960	20097	01.0
09.5	11474	19337	11369	19489	11265	19641	11161	19795	11057	19950	10955	20105	00.5
10.0	11469	19344	11364	19496	11259	19649	11156	19803	11052	19957	10950	20113	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

129°

51°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	10950	20113	10848	20269	10746	20427	10646	20585	10545	20744	10446	20905	10.0
00.5	10945	20121	10843	20277	10741	20435	10641	20593	10540	20752	10441	20913	09.5
01.0	10940	20128	10838	20285	10736	20442	10636	20601	10535	20760	10436	20921	09.0
01.5	10934	20136	10832	20293	10731	20450	10630	20609	10530	20768	10431	20929	08.5
02.0	10929	20144	10827	20301	10726	20458	10625	20617	10525	20776	10426	20937	08.0
02.5	10924	20152	10822	20309	10721	20466	10620	20625	10520	20784	10421	20945	07.5
03.0	10919	20160	10817	20316	10716	20474	10615	20633	10515	20792	10416	20953	07.0
03.5	10914	20167	10812	20324	10711	20482	10610	20641	10510	20800	10411	20961	06.5
04.0	10909	20175	10807	20332	10706	20490	10605	20649	10505	20808	10406	20969	06.0
04.5	10904	20183	10802	20340	10701	20498	10600	20657	10500	20816	10401	20977	05.5
05.0	10899	20191	10797	20348	10696	20506	10595	20665	10496	20824	10396	20985	05.0
05.5	10894	20199	10792	20356	10691	20514	10590	20673	10491	20832	10391	20993	04.5
06.0	10888	20207	10787	20364	10686	20522	10585	20681	10486	20840	10386	21001	04.0
06.5	10883	20214	10782	20371	10681	20530	10580	20688	10481	20848	10381	21009	03.5
07.0	10878	20222	10777	20379	10676	20537	10575	20696	10476	20856	10376	21017	03.0
07.5	10873	20230	10772	20387	10671	20545	10570	20704	10471	20864	10371	21025	02.5
08.0	10868	20238	10767	20395	10666	20553	10565	20712	10466	20872	10367	21033	02.0
08.5	10863	20246	10762	20403	10661	20561	10560	20720	10461	20880	10362	21042	01.5
09.0	10858	20254	10756	20411	10656	20569	10555	20728	10456	20889	10357	21050	01.0
09.5	10853	20261	10751	20419	10651	20577	10550	20736	10451	20897	10352	21058	00.5
10.0	10848	20269	10746	20427	10646	20585	10545	20744	10446	20905	10347	21066	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

128°

52°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	10347	21066	10248	21228	10151	21391	10053	21555	9957	21720	9861	21887	10.0
00.5	10342	21074	10243	21236	10146	21399	10048	21564	9952	21729	9856	21895	09.5
01.0	10337	21082	10239	21244	10141	21408	10044	21572	9947	21737	9851	21903	09.0
01.5	10332	21090	10234	21252	10136	21416	10039	21580	9942	21745	9846	21912	08.5
02.0	10327	21098	10229	21261	10131	21424	10034	21588	9937	21754	9841	21920	08.0
02.5	10322	21106	10224	21269	10126	21432	10029	21596	9933	21762	9837	21928	07.5
03.0	10317	21114	10219	21277	10121	21440	10024	21605	9928	21770	9832	21937	07.0
03.5	10312	21122	10214	21285	10116	21448	10019	21613	9923	21778	9827	21945	06.5
04.0	10307	21131	10209	21293	10112	21457	10015	21621	9918	21787	9822	21953	06.0
04.5	10302	21139	10204	21301	10107	21465	10010	21629	9913	21795	9818	21962	05.5
05.0	10298	21147	10199	21309	10102	21473	10005	21638	9909	21803	9813	21970	05.0
05.5	10293	21155	10195	21318	10097	21481	10000	21646	9904	21812	9808	21978	04.5
06.0	10288	21163	10190	21326	10092	21490	9995	21654	9899	21820	9803	21987	04.0
06.5	10283	21171	10185	21334	10087	21498	9990	21663	9894	21828	9798	21995	03.5
07.0	10278	21179	10180	21342	10082	21506	9986	21671	9889	21837	9794	22003	03.0
07.5	10273	21187	10175	21350	10078	21514	9981	21679	9885	21845	9789	22012	02.5
08.0	10268	21195	10170	21358	10073	21522	9976	21687	9880	21853	9784	22020	02.0
08.5	10263	21204	10165	21367	10068	21531	9971	21696	9875	21862	9779	22029	01.5
09.0	10258	21212	10160	21375	10063	21539	9966	21704	9870	21870	9775	22037	01.0
09.5	10253	21220	10155	21383	10058	21547	9962	21712	9865	21878	9770	22045	00.5
10.0	10248	21228	10151	21391	10053	21555	9957	21720	9861	21887	9765	22054	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

127°

53°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	9765	22054	9670	22222	9576	22391	9482	22561	9389	22732	9296	22905	10.0
00.5	9760	22062	9665	22230	9571	22400	9477	22570	9384	22741	9292	22913	09.5
01.0	9756	22070	9661	22239	9566	22408	9473	22578	9380	22750	9287	22922	09.0
01.5	9751	22079	9656	22247	9562	22416	9468	22587	9375	22758	9282	22931	08.5
02.0	9746	22087	9651	22256	9557	22425	9463	22595	9370	22767	9278	22939	08.0
02.5	9741	22096	9647	22264	9552	22433	9459	22604	9366	22775	9273	22948	07.5
03.0	9737	22104	9642	22272	9548	22442	9454	22613	9361	22784	9269	22957	07.0
03.5	9732	22112	9637	22281	9543	22450	9449	22621	9356	22793	9264	22965	06.5
04.0	9727	22121	9632	22289	9538	22459	9445	22630	9352	22801	9259	22974	06.0
04.5	9722	22129	9628	22298	9534	22467	9440	22638	9347	22810	9255	22983	05.5
05.0	9718	22138	9623	22306	9529	22476	9435	22647	9343	22819	9250	22991	05.0
05.5	9713	22146	9618	22315	9524	22485	9431	22655	9338	22827	9246	23000	04.5
06.0	9708	22154	9614	22323	9520	22493	9426	22664	9333	22836	9241	23009	04.0
06.5	9703	22163	9609	22332	9515	22502	9421	22672	9329	22844	9236	23017	03.5
07.0	9699	22171	9604	22340	9510	22510	9417	22681	9324	22853	9232	23026	03.0
07.5	9694	22180	9599	22349	9506	22519	9412	22690	9319	22862	9227	23035	02.5
08.0	9689	22188	9595	22357	9501	22527	9408	22698	9315	22870	9223	23043	02.0
08.5	9684	22197	9590	22366	9496	22536	9403	22707	9310	22879	9218	23052	01.5
09.0	9680	22205	9585	22374	9491	22544	9398	22715	9306	22888	9213	23061	01.0
09.5	9675	22213	9581	22383	9487	22553	9394	22724	9301	22896	9209	23069	00.5
10.0	9670	22222	9576	22391	9482	22561	9389	22732	9296	22905	9204	23078	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

126°

54°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	9204	23078	9113	23253	9022	23428	8931	23605	8842	23782	8752	23961	10.0
00.5	9200	23087	9108	23261	9017	23437	8927	23613	8837	23791	8748	23970	09.5
01.0	9195	23096	9104	23270	9013	23446	8922	23622	8833	23800	8743	23979	09.0
01.5	9190	23104	9099	23279	9008	23454	8918	23631	8828	23809	8739	23988	08.5
02.0	9186	23113	9094	23288	9004	23463	8913	23640	8824	23818	8734	23997	08.0
02.5	9181	23122	9090	23296	8999	23472	8909	23649	8819	23827	8730	24006	07.5
03.0	9177	23130	9085	23305	8995	23481	8904	23658	8815	23836	8726	24015	07.0
03.5	9172	23139	9081	23314	8990	23490	8900	23667	8810	23845	8721	24024	06.5
04.0	9168	23148	9076	23323	8986	23499	8895	23676	8806	23854	8717	24033	06.0
04.5	9163	23156	9072	23331	8981	23507	8891	23684	8801	23863	8712	24042	05.5
05.0	9158	23165	9067	23340	8977	23516	8886	23693	8797	23871	8708	24051	05.0
05.5	9154	23174	9063	23349	8972	23525	8882	23702	8792	23880	8703	24060	04.5
06.0	9149	23183	9058	23358	8967	23534	8877	23711	8788	23889	8699	24069	04.0
06.5	9145	23191	9054	23366	8963	23543	8873	23720	8783	23898	8695	24078	03.5
07.0	9140	23200	9049	23375	8958	23552	8868	23729	8779	23907	8690	24087	03.0
07.5	9136	23209	9044	23384	8954	23560	8864	23738	8775	23916	8686	24096	02.5
08.0	9131	23218	9040	23393	8949	23569	8859	23747	8770	23925	8681	24105	02.0
08.5	9126	23226	9035	23402	8945	23578	8855	23756	8766	23934	8677	24114	01.5
09.0	9122	23235	9031	23410	8940	23587	8851	23764	8761	23943	8672	24123	01.0
09.5	9117	23244	9026	23419	8936	23596	8846	23773	8757	23952	8668	24132	00.5
10.0	9113	23253	9022	23428	8931	23605	8842	23782	8752	23961	8664	24141	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

125°

55°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	8664	24141	8575	24322	8488	24504	8401	24687	8314	24872	8228	25057	10.0
00.5	8659	24150	8571	24331	8483	24513	8396	24696	8310	24881	8224	25066	09.5
01.0	8655	24159	8567	24340	8479	24522	8392	24706	8305	24890	8219	25076	09.0
01.5	8650	24168	8562	24349	8475	24531	8388	24715	8301	24899	8215	25085	08.5
02.0	8646	24177	8558	24358	8470	24541	8383	24724	8297	24909	8211	25094	08.0
02.5	8641	24186	8553	24367	8466	24550	8379	24733	8293	24918	8207	25104	07.5
03.0	8637	24195	8549	24376	8462	24559	8375	24742	8288	24927	8202	25113	07.0
03.5	8633	24204	8545	24385	8457	24568	8370	24752	8284	24936	8198	25122	06.5
04.0	8628	24213	8540	24395	8453	24577	8366	24761	8280	24946	8194	25132	06.0
04.5	8624	24222	8536	24404	8448	24586	8362	24770	8275	24955	8190	25141	05.5
05.0	8619	24231	8531	24413	8444	24595	8357	24779	8271	24964	8185	25150	05.0
05.5	8615	24240	8527	24422	8440	24605	8353	24788	8267	24973	8181	25160	04.5
06.0	8611	24249	8523	24431	8435	24614	8349	24798	8262	24983	8177	25169	04.0
06.5	8606	24258	8518	24440	8431	24623	8344	24807	8258	24992	8172	25178	03.5
07.0	8602	24267	8514	24449	8427	24632	8340	24816	8254	25001	8168	25188	03.0
07.5	8597	24276	8510	24458	8422	24641	8336	24825	8250	25011	8164	25197	02.5
08.0	8593	24286	8505	24467	8418	24650	8331	24835	8245	25020	8160	25206	02.0
08.5	8589	24295	8501	24477	8414	24660	8327	24844	8241	25029	8155	25216	01.5
09.0	8584	24304	8496	24486	8409	24669	8323	24853	8237	25039	8151	25225	01.0
09.5	8580	24313	8492	24495	8405	24678	8318	24862	8232	25048	8147	25234	00.5
10.0	8575	24322	8488	24504	8401	24687	8314	24872	8228	25057	8143	25244	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

124°

56°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	8143	25244	8058	25432	7973	25621	7889	25811	7806	26003	7723	26195	10.0
00.5	8138	25253	8053	25441	7969	25630	7885	25821	7802	26012	7719	26205	09.5
01.0	8134	25263	8049	25451	7965	25640	7881	25830	7798	26022	7715	26215	09.0
01.5	8130	25272	8045	25460	7961	25649	7877	25840	7794	26031	7711	26224	08.5
02.0	8126	25281	8041	25469	7956	25659	7873	25849	7789	26041	7707	26234	08.0
02.5	8121	25291	8036	25479	7952	25668	7868	25859	7785	26051	7703	26244	07.5
03.0	8117	25300	8032	25488	7948	25678	7864	25868	7781	26060	7698	26253	07.0
03.5	8113	25309	8028	25498	7944	25687	7860	25878	7777	26070	7694	26263	06.5
04.0	8109	25319	8024	25507	7940	25697	7856	25887	7773	26079	7690	26273	06.0
04.5	8104	25328	8020	25517	7935	25706	7852	25897	7769	26089	7686	26282	05.5
05.0	8100	25338	8015	25526	7931	25716	7848	25907	7765	26099	7682	26292	05.0
05.5	8096	25347	8011	25536	7927	25725	7843	25916	7760	26108	7678	26302	04.5
06.0	8092	25356	8007	25545	7923	25735	7839	25926	7756	26118	7674	26311	04.0
06.5	8087	25366	8003	25554	7919	25744	7835	25935	7752	26128	7670	26321	03.5
07.0	8083	25375	7998	25564	7914	25754	7831	25945	7748	26137	7665	26331	03.0
07.5	8079	25385	7994	25573	7910	25763	7827	25955	7744	26147	7661	26341	02.5
08.0	8075	25394	7990	25583	7906	25773	7823	25964	7740	26157	7657	26350	02.0
08.5	8070	25403	7986	25592	7902	25782	7818	25974	7736	26166	7653	26360	01.5
09.0	8066	25413	7982	25602	7898	25792	7814	25983	7731	26176	7649	26370	01.0
09.5	8062	25422	7977	25611	7894	25802	7810	25993	7727	26186	7645	26379	00.5
10.0	8058	25432	7973	25621	7889	25811	7806	26003	7723	26195	7641	26389	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

123°

57°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	7641	26389	7559	26584	7478	26781	7397	26978	7317	27177	7237	27378	10.0
00.5	7637	26399	7555	26594	7474	26791	7393	26988	7313	27187	7233	27388	09.5
01.0	7633	26409	7551	26604	7470	26800	7389	26998	7309	27197	7229	27398	09.0
01.5	7629	26418	7547	26614	7466	26810	7385	27008	7305	27207	7225	27408	08.5
02.0	7624	26428	7543	26623	7462	26820	7381	27018	7301	27217	7221	27418	08.0
02.5	7620	26438	7539	26633	7458	26830	7377	27028	7297	27227	7217	27428	07.5
03.0	7616	26448	7535	26643	7454	26840	7373	27038	7293	27237	7213	27438	07.0
03.5	7612	26457	7531	26653	7450	26850	7369	27048	7289	27247	7209	27448	06.5
04.0	7608	26467	7527	26663	7445	26860	7365	27058	7285	27257	7205	27458	06.0
04.5	7604	26477	7522	26673	7441	26869	7361	27068	7281	27267	7201	27468	05.5
05.0	7600	26487	7518	26682	7437	26879	7357	27078	7277	27277	7197	27478	05.0
05.5	7596	26496	7514	26692	7433	26889	7353	27088	7273	27287	7194	27488	04.5
06.0	7592	26506	7510	26702	7429	26899	7349	27098	7269	27297	7190	27498	04.0
06.5	7588	26516	7506	26712	7425	26909	7345	27108	7265	27307	7186	27508	03.5
07.0	7584	26526	7502	26722	7421	26919	7341	27117	7261	27317	7182	27518	03.0
07.5	7579	26535	7498	26731	7417	26929	7337	27127	7257	27327	7178	27529	02.5
08.0	7575	26545	7494	26741	7413	26939	7333	27137	7253	27337	7174	27539	02.0
08.5	7571	26555	7490	26751	7409	26949	7329	27147	7249	27347	7170	27549	01.5
09.0	7567	26565	7486	26761	7405	26959	7325	27157	7245	27357	7166	27559	01.0
09.5	7563	26574	7482	26771	7401	26968	7321	27167	7241	27367	7162	27569	00.5
10.0	7559	26584	7478	26781	7397	26978	7317	27177	7237	27378	7158	27579	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

122°

58°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	7158	27579	7079	27782	7001	27986	6923	28191	6846	28398	6770	28607	10.0
00.5	7154	27589	7075	27792	6997	27996	6920	28202	6842	28409	6766	28617	09.5
01.0	7150	27599	7071	27802	6993	28006	6916	28212	6839	28419	6762	28627	09.0
01.5	7146	27609	7068	27812	6989	28017	6912	28222	6835	28429	6758	28638	08.5
02.0	7142	27619	7064	27823	6986	28027	6908	28233	6831	28440	6754	28648	08.0
02.5	7138	27630	7060	27833	6982	28037	6904	28243	6827	28450	6751	28659	07.5
03.0	7134	27640	7056	27843	6978	28048	6900	28253	6823	28461	6747	28669	07.0
03.5	7130	27650	7052	27853	6974	28058	6896	28264	6819	28471	6743	28680	06.5
04.0	7126	27660	7048	27863	6970	28068	6892	28274	6816	28481	6739	28690	06.0
04.5	7122	27670	7044	27874	6966	28078	6889	28284	6812	28492	6735	28701	05.5
05.0	7119	27680	7040	27884	6962	28089	6885	28295	6808	28502	6731	28711	05.0
05.5	7115	27690	7036	27894	6958	28099	6881	28305	6804	28513	6728	28722	04.5
06.0	7111	27701	7032	27904	6954	28109	6877	28315	6800	28523	6724	28732	04.0
06.5	7107	27711	7028	27914	6951	28119	6873	28326	6796	28533	6720	28743	03.5
07.0	7103	27721	7024	27925	6947	28130	6869	28336	6793	28544	6716	28753	03.0
07.5	7099	27731	7021	27935	6943	28140	6866	28346	6789	28554	6712	28764	02.5
08.0	7095	27741	7017	27945	6939	28150	6862	28357	6785	28565	6709	28774	02.0
08.5	7091	27751	7013	27955	6935	28161	6858	28367	6781	28575	6705	28785	01.5
09.0	7087	27762	7009	27966	6931	28171	6854	28378	6777	28586	6701	28795	01.0
09.5	7083	27772	7005	27976	6927	28181	6850	28388	6773	28596	6697	28806	00.5
10.0	7079	27782	7001	27986	6923	28191	6846	28398	6770	28607	6693	28816	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

121°

59°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	6693	28816	6618	29027	6543	29239	6468	29453	6394	29668	6320	29885	10.0
00.5	6690	28827	6614	29038	6539	29250	6464	29464	6390	29679	6316	29896	09.5
01.0	6686	28837	6610	29048	6535	29261	6461	29475	6386	29690	6313	29907	09.0
01.5	6682	28848	6606	29059	6531	29271	6457	29485	6383	29701	6309	29918	08.5
02.0	6678	28858	6603	29069	6528	29282	6453	29496	6379	29712	6305	29928	08.0
02.5	6674	28869	6599	29080	6524	29293	6449	29507	6375	29722	6302	29939	07.5
03.0	6671	28879	6595	29091	6520	29303	6446	29518	6372	29733	6298	29950	07.0
03.5	6667	28890	6591	29101	6516	29314	6442	29528	6368	29744	6294	29961	06.5
04.0	6663	28900	6588	29112	6513	29325	6438	29539	6364	29755	6291	29972	06.0
04.5	6659	28911	6584	29122	6509	29335	6435	29550	6361	29766	6287	29983	05.5
05.0	6656	28921	6580	29133	6505	29346	6431	29561	6357	29776	6283	29994	05.0
05.5	6652	28932	6576	29144	6501	29357	6427	29571	6353	29787	6280	30005	04.5
06.0	6648	28942	6573	29154	6498	29367	6423	29582	6350	29798	6276	30016	04.0
06.5	6644	28953	6569	29165	6494	29378	6420	29593	6346	29809	6272	30027	03.5
07.0	6640	28964	6565	29176	6490	29389	6416	29604	6342	29820	6269	30037	03.0
07.5	6637	28974	6561	29186	6487	29400	6412	29614	6338	29831	6265	30048	02.5
08.0	6633	28985	6558	29197	6483	29410	6409	29625	6335	29841	6262	30059	02.0
08.5	6629	28995	6554	29207	6479	29421	6405	29636	6331	29852	6258	30070	01.5
09.0	6625	29006	6550	29218	6475	29432	6401	29647	6327	29863	6254	30081	01.0
09.5	6622	29016	6546	29229	6472	29442	6397	29658	6324	29874	6251	30092	00.5
10.0	6618	29027	6543	29239	6468	29453	6394	29668	6320	29885	6247	30103	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

120°

60°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	6247	30103	6174	30323	6102	30544	6030	30766	5959	30990	5888	31216	10.0
00.5	6243	30114	6171	30334	6098	30555	6027	30777	5956	31001	5885	31227	09.5
01.0	6240	30125	6167	30345	6095	30566	6023	30788	5952	31013	5881	31238	09.0
01.5	6236	30136	6163	30356	6091	30577	6020	30800	5948	31024	5878	31250	08.5
02.0	6232	30147	6160	30367	6088	30588	6016	30811	5945	31035	5874	31261	08.0
02.5	6229	30158	6156	30378	6084	30599	6012	30822	5941	31046	5871	31272	07.5
03.0	6225	30169	6153	30389	6080	30610	6009	30833	5938	31058	5867	31284	07.0
03.5	6221	30180	6149	30400	6077	30621	6005	30844	5934	31069	5864	31295	06.5
04.0	6218	30191	6145	30411	6073	30632	6002	30856	5931	31080	5860	31306	06.0
04.5	6214	30202	6142	30422	6070	30644	5998	30867	5927	31091	5857	31318	05.5
05.0	6211	30213	6138	30433	6066	30655	5995	30878	5924	31103	5853	31329	05.0
05.5	6207	30224	6134	30444	6063	30666	5991	30889	5920	31114	5850	31340	04.5
06.0	6203	30235	6131	30455	6059	30677	5988	30900	5917	31125	5846	31352	04.0
06.5	6200	30246	6127	30466	6055	30688	5984	30912	5913	31137	5843	31363	03.5
07.0	6196	30257	6124	30477	6052	30699	5980	30923	5910	31148	5839	31375	03.0
07.5	6192	30268	6120	30488	6048	30710	5977	30934	5906	31159	5836	31386	02.5
08.0	6189	30279	6116	30499	6045	30721	5973	30945	5902	31171	5832	31397	02.0
08.5	6185	30290	6113	30510	6041	30733	5970	30956	5899	31182	5829	31409	01.5
09.0	6181	30301	6109	30521	6037	30744	5966	30968	5895	31193	5825	31420	01.0
09.5	6178	30312	6106	30532	6034	30755	5963	30979	5892	31204	5822	31431	00.5
10.0	6174	30323	6102	30544	6030	30766	5959	30990	5888	31216	5818	31443	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

119°

61°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	5818	31443	5748	31672	5679	31902	5610	32134	5542	32367	5474	32602	10.0
00.5	5815	31454	5745	31683	5676	31913	5607	32145	5538	32379	5471	32614	09.5
01.0	5811	31466	5741	31695	5672	31925	5603	32157	5535	32391	5467	32626	09.0
01.5	5808	31477	5738	31706	5669	31937	5600	32169	5532	32402	5464	32638	08.5
02.0	5804	31488	5734	31717	5665	31948	5596	32180	5528	32414	5460	32650	08.0
02.5	5801	31500	5731	31729	5662	31960	5593	32192	5525	32426	5457	32661	07.5
03.0	5797	31511	5727	31740	5658	31971	5590	32204	5521	32438	5454	32673	07.0
03.5	5794	31523	5724	31752	5655	31983	5586	32215	5518	32449	5450	32685	06.5
04.0	5790	31534	5721	31763	5651	31994	5583	32227	5515	32461	5447	32697	06.0
04.5	5787	31546	5717	31775	5648	32006	5579	32239	5511	32473	5444	32709	05.5
05.0	5783	31557	5714	31787	5645	32018	5576	32250	5508	32485	5440	32720	05.0
05.5	5780	31568	5710	31798	5641	32029	5572	32262	5504	32496	5437	32732	04.5
06.0	5776	31580	5707	31810	5638	32041	5569	32274	5501	32508	5433	32744	04.0
06.5	5773	31591	5703	31821	5634	32052	5566	32285	5498	32520	5430	32756	03.5
07.0	5769	31603	5700	31833	5631	32064	5562	32297	5494	32532	5427	32768	03.0
07.5	5766	31614	5696	31844	5627	32076	5559	32309	5491	32543	5423	32780	02.5
08.0	5762	31626	5693	31856	5624	32087	5555	32320	5487	32555	5420	32792	02.0
08.5	5759	31637	5689	31867	5620	32099	5552	32332	5484	32567	5417	32803	01.5
09.0	5755	31649	5686	31879	5617	32110	5549	32344	5481	32579	5413	32815	01.0
09.5	5752	31660	5682	31890	5614	32122	5545	32355	5477	32591	5410	32827	00.5
10.0	5748	31672	5679	31902	5610	32134	5542	32367	5474	32602	5407	32839	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

118°

62°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	5407	32839	5340	33078	5273	33318	5207	33559	5142	33803	5077	34048	10.0
00.5	5403	32851	5336	33089	5270	33330	5204	33572	5138	33815	5073	34061	09.5
01.0	5400	32863	5333	33101	5266	33342	5201	33584	5135	33827	5070	34073	09.0
01.5	5396	32875	5330	33113	5263	33354	5197	33596	5132	33840	5067	34085	08.5
02.0	5393	32887	5326	33125	5260	33366	5194	33608	5129	33852	5064	34098	08.0
02.5	5390	32899	5323	33137	5257	33378	5191	33620	5125	33864	5060	34110	07.5
03.0	5386	32910	5320	33149	5253	33390	5187	33632	5122	33876	5057	34122	07.0
03.5	5383	32922	5316	33161	5250	33402	5184	33644	5119	33889	5054	34135	06.5
04.0	5380	32934	5313	33173	5247	33414	5181	33657	5115	33901	5051	34147	06.0
04.5	5376	32946	5310	33185	5243	33426	5178	33669	5112	33913	5047	34159	05.5
05.0	5373	32958	5306	33197	5240	33438	5174	33681	5109	33925	5044	34172	05.0
05.5	5370	32970	5303	33209	5237	33450	5171	33693	5106	33938	5041	34184	04.5
06.0	5366	32982	5300	33221	5233	33463	5168	33705	5102	33950	5038	34196	04.0
06.5	5363	32994	5296	33233	5230	33475	5164	33718	5099	33962	5034	34209	03.5
07.0	5360	33006	5293	33245	5227	33487	5161	33730	5096	33975	5031	34221	03.0
07.5	5356	33018	5290	33257	5224	33499	5158	33742	5093	33987	5028	34233	02.5
08.0	5353	33030	5286	33269	5220	33511	5155	33754	5089	33999	5025	34246	02.0
08.5	5350	33042	5283	33281	5217	33523	5151	33766	5086	34011	5022	34258	01.5
09.0	5346	33054	5280	33294	5214	33535	5148	33779	5083	34024	5018	34271	01.0
09.5	5343	33066	5276	33306	5210	33547	5145	33791	5080	34036	5015	34283	00.5
10.0	5340	33078	5273	33318	5207	33559	5142	33803	5077	34048	5012	34295	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

117°

63°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	5012	34295	4948	34544	4884	34795	4821	35047	4758	35302	4696	35558	10.0
00.5	5009	34308	4945	34557	4881	34807	4818	35060	4755	35314	4693	35571	09.5
01.0	5005	34320	4941	34569	4878	34820	4815	35073	4752	35327	4690	35583	09.0
01.5	5002	34333	4938	34582	4875	34833	4811	35085	4749	35340	4687	35596	08.5
02.0	4999	34345	4935	34594	4871	34845	4808	35098	4746	35353	4683	35609	08.0
02.5	4996	34357	4932	34607	4868	34858	4805	35111	4743	35365	4680	35622	07.5
03.0	4993	34370	4929	34619	4865	34870	4802	35123	4739	35378	4677	35635	07.0
03.5	4989	34382	4925	34632	4862	34883	4799	35136	4736	35391	4674	35648	06.5
04.0	4986	34395	4922	34644	4859	34896	4796	35149	4733	35404	4671	35661	06.0
04.5	4983	34407	4919	34657	4856	34908	4793	35161	4730	35417	4668	35674	05.5
05.0	4980	34420	4916	34669	4852	34921	4789	35174	4727	35429	4665	35687	05.0
05.5	4977	34432	4913	34682	4849	34933	4786	35187	4724	35442	4662	35699	04.5
06.0	4973	34444	4910	34694	4846	34946	4783	35200	4721	35455	4659	35712	04.0
06.5	4970	34457	4906	34707	4843	34959	4780	35212	4718	35468	4656	35725	03.5
07.0	4967	34469	4903	34719	4840	34971	4777	35225	4714	35481	4652	35738	03.0
07.5	4964	34482	4900	34732	4837	34984	4774	35238	4711	35494	4649	35751	02.5
08.0	4961	34494	4897	34745	4833	34997	4771	35251	4708	35506	4646	35764	02.0
08.5	4957	34507	4894	34757	4830	35009	4768	35263	4705	35519	4643	35777	01.5
09.0	4954	34519	4890	34770	4827	35022	4764	35276	4702	35532	4640	35790	01.0
09.5	4951	34532	4887	34782	4824	35035	4761	35289	4699	35545	4637	35803	00.5
10.0	4948	34544	4884	34795	4821	35047	4758	35302	4696	35558	4634	35816	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

116°

64°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	4634	35816	4573	36076	4512	36338	4451	36602	4391	36867	4332	37135	10.0
00.5	4631	35829	4570	36089	4509	36351	4448	36615	4388	36881	4329	37149	09.5
01.0	4628	35842	4566	36102	4506	36364	4445	36628	4385	36894	4326	37162	09.0
01.5	4625	35855	4563	36115	4503	36377	4442	36641	4382	36907	4323	37176	08.5
02.0	4622	35868	4560	36128	4500	36390	4439	36655	4379	36921	4320	37189	08.0
02.5	4619	35881	4557	36141	4496	36403	4436	36668	4376	36934	4317	37203	07.5
03.0	4616	35894	4554	36154	4493	36417	4433	36681	4373	36948	4314	37216	07.0
03.5	4612	35907	4551	36167	4490	36430	4430	36694	4370	36961	4311	37230	06.5
04.0	4609	35920	4548	36180	4487	36443	4427	36708	4367	36974	4308	37243	06.0
04.5	4606	35933	4545	36193	4484	36456	4424	36721	4364	36988	4305	37256	05.5
05.0	4603	35946	4542	36206	4481	36469	4421	36734	4361	37001	4302	37270	05.0
05.5	4600	35959	4539	36220	4478	36483	4418	36748	4358	37014	4299	37283	04.5
06.0	4597	35972	4536	36233	4475	36496	4415	36761	4355	37028	4296	37297	04.0
06.5	4594	35985	4533	36246	4472	36509	4412	36774	4352	37041	4293	37310	03.5
07.0	4591	35998	4530	36259	4469	36522	4409	36787	4349	37055	4290	37324	03.0
07.5	4588	36011	4527	36272	4466	36535	4406	36801	4346	37068	4287	37338	02.5
08.0	4585	36024	4524	36285	4463	36549	4403	36814	4343	37082	4284	37351	02.0
08.5	4582	36037	4521	36298	4460	36562	4400	36827	4340	37095	4281	37365	01.5
09.0	4579	36050	4518	36311	4457	36575	4397	36841	4337	37108	4278	37378	01.0
09.5	4576	36063	4515	36325	4454	36588	4394	36854	4335	37122	4275	37392	00.5
10.0	4573	36076	4512	36338	4451	36602	4391	36867	4332	37135	4272	37405	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
	50'		40'		30'		20'		10'		00'		↑

115°

65°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	4272	37405	4214	37677	4156	37951	4098	38227	4040	38506	3983	38786	10.0
00.5	4269	37419	4211	37691	4153	37965	4095	38241	4038	38520	3981	38800	09.5
01.0	4267	37432	4208	37704	4150	37979	4092	38255	4035	38534	3978	38814	09.0
01.5	4264	37446	4205	37718	4147	37992	4089	38269	4032	38548	3975	38828	08.5
02.0	4261	37459	4202	37732	4144	38006	4086	38283	4029	38562	3972	38842	08.0
02.5	4258	37473	4199	37745	4141	38020	4083	38297	4026	38575	3969	38856	07.5
03.0	4255	37487	4196	37759	4138	38034	4080	38311	4023	38589	3966	38871	07.0
03.5	4252	37500	4193	37773	4135	38048	4078	38324	4020	38603	3964	38885	06.5
04.0	4249	37514	4190	37786	4132	38061	4075	38338	4018	38618	3961	38899	06.0
04.5	4246	37527	4187	37800	4129	38075	4072	38352	4015	38632	3958	38913	05.5
05.0	4243	37541	4185	37814	4127	38089	4069	38366	4012	38646	3955	38927	05.0
05.5	4240	37554	4182	37828	4124	38103	4066	38380	4009	38660	3952	38941	04.5
06.0	4237	37568	4179	37841	4121	38117	4063	38394	4006	38674	3950	38955	04.0
06.5	4234	37582	4176	37855	4118	38130	4060	38408	4003	38688	3947	38969	03.5
07.0	4231	37595	4173	37869	4115	38144	4058	38422	4000	38702	3944	38984	03.0
07.5	4228	37609	4170	37882	4112	38158	4055	38436	3998	38716	3941	38998	02.5
08.0	4225	37623	4167	37896	4109	38172	4052	38450	3995	38730	3938	39012	02.0
08.5	4223	37636	4164	37910	4106	38186	4049	38464	3992	38744	3935	39026	01.5
09.0	4220	37650	4161	37924	4103	38200	4046	38478	3989	38758	3933	39040	01.0
09.5	4217	37663	4158	37937	4101	38213	4043	38492	3986	38772	3930	39054	00.5
10.0	4214	37677	4156	37951	4098	38227	4040	38506	3983	38786	3927	39069	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
	50'		40'		30'		20'		10'		00'		↑

114°

66°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	3927	39069	3871	39354	3815	39641	3760	39930	3706	40222	3651	40516	10.0
00.5	3924	39083	3868	39368	3813	39655	3757	39945	3703	40236	3649	40531	09.5
01.0	3921	39097	3865	39382	3810	39669	3755	39959	3700	40251	3646	40545	09.0
01.5	3919	39111	3863	39396	3807	39684	3752	39974	3697	40266	3643	40560	08.5
02.0	3916	39125	3860	39411	3804	39698	3749	39988	3695	40280	3640	40575	08.0
02.5	3913	39140	3857	39425	3802	39713	3747	40003	3692	40295	3638	40590	07.5
03.0	3910	39154	3854	39439	3799	39727	3744	40017	3689	40310	3635	40604	07.0
03.5	3907	39168	3851	39454	3796	39742	3741	40032	3686	40324	3632	40619	06.5
04.0	3905	39182	3849	39468	3793	39756	3738	40046	3684	40339	3630	40634	06.0
04.5	3902	39197	3846	39482	3790	39771	3736	40061	3681	40354	3627	40649	05.5
05.0	3899	39211	3843	39497	3788	39785	3733	40076	3678	40368	3624	40664	05.0
05.5	3896	39225	3840	39511	3785	39800	3730	40090	3676	40383	3622	40679	04.5
06.0	3893	39239	3838	39526	3782	39814	3727	40105	3673	40398	3619	40693	04.0
06.5	3891	39254	3835	39540	3779	39828	3725	40119	3670	40413	3616	40708	03.5
07.0	3888	39268	3832	39554	3777	39843	3722	40134	3667	40427	3613	40723	03.0
07.5	3885	39282	3829	39569	3774	39857	3719	40149	3665	40442	3611	40738	02.5
08.0	3882	39296	3826	39583	3771	39872	3716	40163	3662	40457	3608	40753	02.0
08.5	3879	39311	3824	39597	3768	39886	3714	40178	3659	40472	3605	40768	01.5
09.0	3877	39325	3821	39612	3766	39901	3711	40192	3657	40486	3603	40782	01.0
09.5	3874	39339	3818	39626	3763	39916	3708	40207	3654	40501	3600	40797	00.5
10.0	3871	39354	3815	39641	3760	39930	3706	40222	3651	40516	3597	40812	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

113°

67°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	3597	40812	3544	41111	3491	41412	3438	41716	3386	42022	3335	42331	10.0
00.5	3595	40827	3541	41126	3488	41427	3436	41731	3384	42038	3332	42347	09.5
01.0	3592	40842	3539	41141	3486	41443	3433	41747	3381	42053	3330	42362	09.0
01.5	3589	40857	3536	41156	3483	41458	3431	41762	3379	42068	3327	42378	08.5
02.0	3587	40872	3533	41171	3480	41473	3428	41777	3376	42084	3324	42393	08.0
02.5	3584	40887	3531	41186	3478	41488	3425	41792	3373	42099	3322	42409	07.5
03.0	3581	40902	3528	41201	3475	41503	3423	41808	3371	42115	3319	42424	07.0
03.5	3579	40917	3525	41216	3473	41518	3420	41823	3368	42130	3317	42440	06.5
04.0	3576	40931	3523	41231	3470	41533	3418	41838	3366	42145	3314	42455	06.0
04.5	3573	40946	3520	41246	3467	41549	3415	41854	3363	42161	3312	42471	05.5
05.0	3571	40961	3517	41261	3465	41564	3412	41869	3360	42176	3309	42486	05.0
05.5	3568	40976	3515	41276	3462	41579	3410	41884	3358	42192	3306	42502	04.5
06.0	3565	40991	3512	41291	3459	41594	3407	41899	3355	42207	3304	42518	04.0
06.5	3563	41006	3510	41307	3457	41609	3405	41915	3353	42223	3301	42533	03.5
07.0	3560	41021	3507	41322	3454	41625	3402	41930	3350	42238	3299	42549	03.0
07.5	3557	41036	3504	41337	3452	41640	3399	41945	3348	42254	3296	42564	02.5
08.0	3555	41051	3502	41352	3449	41655	3397	41961	3345	42269	3294	42580	02.0
08.5	3552	41066	3499	41367	3446	41670	3394	41976	3342	42285	3291	42596	01.5
09.0	3549	41081	3496	41382	3444	41686	3392	41992	3340	42300	3289	42611	01.0
09.5	3547	41096	3494	41397	3441	41701	3389	42007	3337	42316	3286	42627	00.5
10.0	3544	41111	3491	41412	3438	41716	3386	42022	3335	42331	3283	42642	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

112°

68°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	3283	42642	3233	42956	3182	43273	3132	43592	3083	43915	3034	44239	10.0
00.5	3281	42658	3230	42972	3180	43289	3130	43608	3080	43931	3031	44256	09.5
01.0	3278	42674	3228	42988	3177	43305	3127	43625	3078	43947	3029	44272	09.0
01.5	3276	42689	3225	43004	3175	43321	3125	43641	3075	43963	3026	44288	08.5
02.0	3273	42705	3222	43020	3172	43337	3122	43657	3073	43979	3024	44305	08.0
02.5	3271	42721	3220	43035	3170	43353	3120	43673	3070	43995	3021	44321	07.5
03.0	3268	42736	3217	43051	3167	43369	3117	43689	3068	44012	3019	44337	07.0
03.5	3266	42752	3215	43067	3165	43385	3115	43705	3065	44028	3016	44354	06.5
04.0	3263	42768	3212	43083	3162	43401	3112	43721	3063	44044	3014	44370	06.0
04.5	3260	42783	3210	43099	3160	43416	3110	43737	3060	44060	3012	44387	05.5
05.0	3258	42799	3207	43114	3157	43432	3107	43753	3058	44077	3009	44403	05.0
05.5	3255	42815	3205	43130	3155	43448	3105	43769	3056	44093	3007	44419	04.5
06.0	3253	42831	3202	43146	3152	43464	3102	43785	3053	44109	3004	44436	04.0
06.5	3250	42846	3200	43162	3150	43480	3100	43801	3051	44125	3002	44452	03.5
07.0	3248	42862	3197	43178	3147	43496	3097	43818	3048	44142	2999	44468	03.0
07.5	3245	42878	3195	43194	3145	43512	3095	43834	3046	44158	2997	44485	02.5
08.0	3243	42893	3192	43210	3142	43528	3093	43850	3043	44174	2995	44501	02.0
08.5	3240	42909	3190	43225	3140	43544	3090	43866	3041	44190	2992	44518	01.5
09.0	3238	42925	3187	43241	3137	43560	3088	43882	3038	44207	2990	44534	01.0
09.5	3235	42941	3185	43257	3135	43576	3085	43898	3036	44223	2987	44551	00.5
10.0	3233	42956	3182	43273	3132	43592	3083	43915	3034	44239	2985	44567	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

111°

69°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	2985	44567	2937	44898	2889	45231	2841	45567	2794	45907	2748	46249	10.0
00.5	2982	44584	2934	44914	2886	45248	2839	45584	2792	45924	2745	46267	09.5
01.0	2980	44600	2932	44931	2884	45265	2837	45601	2790	45941	2743	46284	09.0
01.5	2978	44616	2929	44947	2882	45281	2834	45618	2787	45958	2741	46301	08.5
02.0	2975	44633	2927	44964	2879	45298	2832	45635	2785	45975	2738	46318	08.0
02.5	2973	44649	2925	44981	2877	45315	2829	45652	2783	45992	2736	46335	07.5
03.0	2970	44666	2922	44997	2874	45332	2827	45669	2780	46009	2734	46353	07.0
03.5	2968	44682	2920	45014	2872	45348	2825	45686	2778	46026	2731	46370	06.5
04.0	2965	44699	2917	45031	2870	45365	2822	45703	2776	46043	2729	46387	06.0
04.5	2963	44715	2915	45047	2867	45382	2820	45720	2773	46061	2727	46404	05.5
05.0	2961	44732	2913	45064	2865	45399	2818	45737	2771	46078	2724	46422	05.0
05.5	2958	44749	2910	45081	2863	45416	2815	45754	2769	46095	2722	46439	04.5
06.0	2956	44765	2908	45097	2860	45433	2813	45771	2766	46112	2720	46456	04.0
06.5	2953	44782	2905	45114	2858	45449	2811	45788	2764	46129	2718	46474	03.5
07.0	2951	44798	2903	45131	2855	45466	2808	45805	2762	46146	2715	46491	03.0
07.5	2949	44815	2901	45147	2853	45483	2806	45822	2759	46163	2713	46508	02.5
08.0	2946	44831	2898	45164	2851	45500	2804	45839	2757	46181	2711	46525	02.0
08.5	2944	44848	2896	45181	2848	45517	2801	45856	2755	46198	2708	46543	01.5
09.0	2941	44864	2893	45198	2846	45534	2799	45873	2752	46215	2706	46560	01.0
09.5	2939	44881	2891	45214	2844	45551	2797	45890	2750	46232	2704	46577	00.5
10.0	2937	44898	2889	45231	2841	45567	2794	45907	2748	46249	2701	46595	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

110°

Warning: This page has been generated by a computer program. Complex computer programs usually have bugs and may produce wrong data. The data on this page is believed to be accurate but no warranty is given for it's correctness. Use it only for training and exercising!

70°

	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	2701	46595	2656	46944	2610	47295	2565	47650	2521	48009	2477	48371	10.0
00.5	2699	46612	2653	46961	2608	47313	2563	47668	2519	48027	2475	48389	09.5
01.0	2697	46630	2651	46979	2606	47331	2561	47686	2516	48045	2472	48407	09.0
01.5	2695	46647	2649	46996	2604	47348	2559	47704	2514	48063	2470	48425	08.5
02.0	2692	46664	2647	47014	2601	47366	2556	47722	2512	48081	2468	48443	08.0
02.5	2690	46682	2644	47031	2599	47384	2554	47740	2510	48099	2466	48462	07.5
03.0	2688	46699	2642	47049	2597	47402	2552	47758	2508	48117	2464	48480	07.0
03.5	2685	46717	2640	47066	2595	47419	2550	47776	2505	48135	2461	48498	06.5
04.0	2683	46734	2637	47084	2592	47437	2547	47793	2503	48153	2459	48516	06.0
04.5	2681	46751	2635	47101	2590	47455	2545	47811	2501	48171	2457	48535	05.5
05.0	2678	46769	2633	47119	2588	47473	2543	47829	2499	48189	2455	48553	05.0
05.5	2676	46786	2631	47137	2586	47490	2541	47847	2496	48207	2453	48571	04.5
06.0	2674	46804	2628	47154	2583	47508	2539	47865	2494	48226	2450	48589	04.0
06.5	2672	46821	2626	47172	2581	47526	2536	47883	2492	48244	2448	48608	03.5
07.0	2669	46839	2624	47189	2579	47544	2534	47901	2490	48262	2446	48626	03.0
07.5	2667	46856	2622	47207	2577	47561	2532	47919	2488	48280	2444	48644	02.5
08.0	2665	46874	2619	47225	2574	47579	2530	47937	2485	48298	2442	48662	02.0
08.5	2662	46891	2617	47242	2572	47597	2527	47955	2483	48316	2440	48681	01.5
09.0	2660	46908	2615	47260	2570	47615	2525	47973	2481	48334	2437	48699	01.0
09.5	2658	46926	2613	47278	2568	47633	2523	47991	2479	48352	2435	48717	00.5
10.0	2656	46944	2610	47295	2565	47650	2521	48009	2477	48371	2433	48736	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
	50'		40'		30'		20'		10'		00'		

109°

	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	2433	48736	2390	49104	2347	49477	2304	49852	2262	50232	2221	50615	10.0
00.5	2431	48754	2388	49123	2345	49495	2302	49871	2260	50251	2219	50634	09.5
01.0	2429	48773	2385	49142	2343	49514	2300	49890	2258	50270	2216	50653	09.0
01.5	2426	48791	2383	49160	2340	49533	2298	49909	2256	50289	2214	50673	08.5
02.0	2424	48809	2381	49179	2338	49551	2296	49928	2254	50308	2212	50692	08.0
02.5	2422	48828	2379	49197	2336	49570	2294	49947	2252	50327	2210	50711	07.5
03.0	2420	48846	2377	49216	2334	49589	2292	49966	2250	50346	2208	50731	07.0
03.5	2418	48864	2375	49234	2332	49608	2290	49985	2248	50365	2206	50750	06.5
04.0	2416	48883	2372	49253	2330	49626	2287	50004	2246	50385	2204	50769	06.0
04.5	2413	48901	2370	49271	2328	49645	2285	50023	2243	50404	2202	50788	05.5
05.0	2411	48920	2368	49290	2326	49664	2283	50042	2241	50423	2200	50808	05.0
05.5	2409	48938	2366	49309	2323	49683	2281	50061	2239	50442	2198	50827	04.5
06.0	2407	48957	2364	49327	2321	49702	2279	50080	2237	50461	2196	50847	04.0
06.5	2405	48975	2362	49346	2319	49720	2277	50099	2235	50480	2194	50866	03.5
07.0	2403	48993	2360	49365	2317	49739	2275	50118	2233	50500	2192	50885	03.0
07.5	2400	49012	2357	49383	2315	49758	2273	50137	2231	50519	2190	50905	02.5
08.0	2398	49030	2355	49402	2313	49777	2271	50156	2229	50538	2188	50924	02.0
08.5	2396	49049	2353	49421	2311	49796	2269	50175	2227	50557	2186	50943	01.5
09.0	2394	49067	2351	49439	2309	49815	2266	50194	2225	50576	2183	50963	01.0
09.5	2392	49086	2349	49458	2306	49833	2264	50213	2223	50596	2181	50982	00.5
10.0	2390	49104	2347	49477	2304	49852	2262	50232	2221	50615	2179	51002	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
	50'		40'		30'		20'		10'		00'		

108°

72°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	2179	51002	2139	51393	2098	51787	2058	52186	2018	52589	1979	52995	10.0
00.5	2177	51021	2136	51412	2096	51807	2056	52206	2016	52609	1977	53016	09.5
01.0	2175	51041	2134	51432	2094	51827	2054	52226	2014	52629	1975	53036	09.0
01.5	2173	51060	2132	51451	2092	51847	2052	52246	2013	52649	1973	53057	08.5
02.0	2171	51080	2130	51471	2090	51867	2050	52266	2011	52670	1971	53077	08.0
02.5	2169	51099	2128	51491	2088	51886	2048	52286	2009	52690	1969	53098	07.5
03.0	2167	51119	2126	51510	2086	51906	2046	52306	2007	52710	1968	53118	07.0
03.5	2165	51138	2124	51530	2084	51926	2044	52326	2005	52730	1966	53139	06.5
04.0	2163	51158	2122	51550	2082	51946	2042	52346	2003	52751	1964	53159	06.0
04.5	2161	51177	2120	51570	2080	51966	2040	52367	2001	52771	1962	53180	05.5
05.0	2159	51197	2118	51589	2078	51986	2038	52387	1999	52791	1960	53200	05.0
05.5	2157	51216	2116	51609	2076	52006	2036	52407	1997	52812	1958	53221	04.5
06.0	2155	51236	2114	51629	2074	52026	2034	52427	1995	52832	1956	53242	04.0
06.5	2153	51255	2112	51649	2072	52046	2032	52447	1993	52853	1954	53262	03.5
07.0	2151	51275	2110	51668	2070	52066	2030	52467	1991	52873	1952	53283	03.0
07.5	2149	51294	2108	51688	2068	52086	2028	52487	1989	52893	1950	53303	02.5
08.0	2147	51314	2106	51708	2066	52106	2026	52508	1987	52914	1948	53324	02.0
08.5	2145	51334	2104	51728	2064	52126	2024	52528	1985	52934	1946	53345	01.5
09.0	2143	51353	2102	51748	2062	52146	2022	52548	1983	52955	1944	53365	01.0
09.5	2141	51373	2100	51767	2060	52166	2020	52568	1981	52975	1942	53386	00.5
10.0	2139	51393	2098	51787	2058	52186	2018	52589	1979	52995	1940	53406	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

107°

73°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	1940	53406	1902	53822	1864	54242	1826	54666	1789	55095	1752	55528	10.0
00.5	1938	53427	1900	53843	1862	54263	1824	54687	1787	55116	1750	55550	09.5
01.0	1937	53448	1898	53864	1860	54284	1823	54708	1785	55138	1749	55572	09.0
01.5	1935	53468	1896	53885	1858	54305	1821	54730	1784	55159	1747	55593	08.5
02.0	1933	53489	1894	53905	1856	54326	1819	54751	1782	55181	1745	55615	08.0
02.5	1931	53510	1892	53926	1854	54347	1817	54773	1780	55203	1743	55637	07.5
03.0	1929	53531	1890	53947	1853	54368	1815	54794	1778	55224	1741	55659	07.0
03.5	1927	53551	1889	53968	1851	54390	1813	54815	1776	55246	1739	55681	06.5
04.0	1925	53572	1887	53989	1849	54411	1811	54837	1774	55267	1738	55703	06.0
04.5	1923	53593	1885	54010	1847	54432	1810	54858	1772	55289	1736	55725	05.5
05.0	1921	53614	1883	54031	1845	54453	1808	54880	1771	55311	1734	55747	05.0
05.5	1919	53634	1881	54052	1843	54474	1806	54901	1769	55332	1732	55768	04.5
06.0	1917	53655	1879	54073	1841	54496	1804	54923	1767	55354	1730	55790	04.0
06.5	1915	53676	1877	54094	1839	54517	1802	54944	1765	55376	1729	55812	03.5
07.0	1913	53697	1875	54115	1838	54538	1800	54965	1763	55398	1727	55834	03.0
07.5	1912	53718	1873	54136	1836	54559	1798	54987	1761	55419	1725	55856	02.5
08.0	1910	53738	1871	54157	1834	54581	1796	55008	1760	55441	1723	55878	02.0
08.5	1908	53759	1870	54178	1832	54602	1795	55030	1758	55463	1721	55900	01.5
09.0	1906	53780	1868	54199	1830	54623	1793	55052	1756	55484	1719	55922	01.0
09.5	1904	53801	1866	54221	1828	54645	1791	55073	1754	55506	1718	55944	00.5
10.0	1902	53822	1864	54242	1826	54666	1789	55095	1752	55528	1716	55966	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

106°

74°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	1716	55966	1680	56409	1644	56857	1609	57310	1574	57768	1540	58232	10.0
00.5	1714	55988	1678	56431	1642	56880	1607	57333	1572	57791	1538	58255	09.5
01.0	1712	56010	1676	56454	1641	56902	1605	57356	1571	57814	1536	58278	09.0
01.5	1710	56032	1674	56476	1639	56925	1604	57379	1569	57837	1535	58302	08.5
02.0	1709	56054	1673	56498	1637	56947	1602	57401	1567	57860	1533	58325	08.0
02.5	1707	56076	1671	56521	1635	56970	1600	57424	1565	57884	1531	58348	07.5
03.0	1705	56099	1669	56543	1634	56992	1598	57447	1564	57907	1529	58372	07.0
03.5	1703	56121	1667	56565	1632	57015	1597	57470	1562	57930	1528	58395	06.5
04.0	1701	56143	1666	56588	1630	57038	1595	57493	1560	57953	1526	58418	06.0
04.5	1700	56165	1664	56610	1628	57060	1593	57516	1559	57976	1524	58442	05.5
05.0	1698	56187	1662	56633	1627	57083	1591	57539	1557	57999	1523	58465	05.0
05.5	1696	56209	1660	56655	1625	57106	1590	57561	1555	58022	1521	58489	04.5
06.0	1694	56231	1658	56677	1623	57128	1588	57584	1553	58046	1519	58512	04.0
06.5	1692	56254	1657	56700	1621	57151	1586	57607	1552	58069	1517	58536	03.5
07.0	1691	56276	1655	56722	1619	57174	1585	57630	1550	58092	1516	58559	03.0
07.5	1689	56298	1653	56745	1618	57196	1583	57653	1548	58115	1514	58583	02.5
08.0	1687	56320	1651	56767	1616	57219	1581	57676	1547	58139	1512	58606	02.0
08.5	1685	56342	1650	56790	1614	57242	1579	57699	1545	58162	1511	58630	01.5
09.0	1683	56365	1648	56812	1612	57265	1578	57722	1543	58185	1509	58653	01.0
09.5	1682	56387	1646	56835	1611	57287	1576	57745	1541	58208	1507	58677	00.5
10.0	1680	56409	1644	56857	1609	57310	1574	57768	1540	58232	1506	58700	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

105°

75°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	1506	58700	1472	59175	1439	59654	1406	60140	1373	60631	1341	61129	10.0
00.5	1504	58724	1470	59198	1437	59679	1404	60164	1372	60656	1340	61154	09.5
01.0	1502	58748	1469	59222	1435	59703	1403	60189	1370	60681	1338	61179	09.0
01.5	1501	58771	1467	59246	1434	59727	1401	60213	1369	60706	1337	61204	08.5
02.0	1499	58795	1465	59270	1432	59751	1399	60238	1367	60730	1335	61229	08.0
02.5	1497	58818	1464	59294	1430	59775	1398	60262	1365	60755	1333	61254	07.5
03.0	1495	58842	1462	59318	1429	59800	1396	60287	1364	60780	1332	61279	07.0
03.5	1494	58866	1460	59342	1427	59824	1394	60311	1362	60805	1330	61304	06.5
04.0	1492	58889	1459	59366	1426	59848	1393	60336	1360	60830	1329	61330	06.0
04.5	1490	58913	1457	59390	1424	59872	1391	60360	1359	60855	1327	61355	05.5
05.0	1489	58937	1455	59414	1422	59897	1390	60385	1357	60879	1325	61380	05.0
05.5	1487	58961	1454	59438	1421	59921	1388	60410	1356	60904	1324	61405	04.5
06.0	1485	58984	1452	59462	1419	59945	1386	60434	1354	60929	1322	61430	04.0
06.5	1484	59008	1450	59486	1417	59969	1385	60459	1352	60954	1321	61456	03.5
07.0	1482	59032	1449	59510	1416	59994	1383	60483	1351	60979	1319	61481	03.0
07.5	1480	59056	1447	59534	1414	60018	1381	60508	1349	61004	1317	61506	02.5
08.0	1479	59079	1445	59558	1412	60042	1380	60533	1348	61029	1316	61531	02.0
08.5	1477	59103	1444	59582	1411	60067	1378	60557	1346	61054	1314	61557	01.5
09.0	1475	59127	1442	59606	1409	60091	1377	60582	1344	61079	1313	61582	01.0
09.5	1474	59151	1440	59630	1407	60116	1375	60607	1343	61104	1311	61607	00.5
10.0	1472	59175	1439	59654	1406	60140	1373	60631	1341	61129	1310	61632	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

104°

76°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	1310	61632	1278	62142	1247	62659	1217	63181	1187	63711	1157	64248	10.0
00.5	1308	61658	1277	62168	1246	62685	1215	63208	1185	63738	1155	64275	09.5
01.0	1306	61683	1275	62194	1244	62711	1214	63234	1184	63764	1154	64302	09.0
01.5	1305	61709	1274	62219	1243	62737	1212	63260	1182	63791	1153	64329	08.5
02.0	1303	61734	1272	62245	1241	62763	1211	63287	1181	63818	1151	64356	08.0
02.5	1302	61759	1271	62271	1240	62789	1209	63313	1179	63845	1150	64383	07.5
03.0	1300	61785	1269	62297	1238	62815	1208	63340	1178	63871	1148	64410	07.0
03.5	1299	61810	1267	62322	1237	62841	1206	63366	1176	63898	1147	64437	06.5
04.0	1297	61836	1266	62348	1235	62867	1205	63392	1175	63925	1145	64464	06.0
04.5	1295	61861	1264	62374	1234	62893	1203	63419	1173	63952	1144	64491	05.5
05.0	1294	61887	1263	62400	1232	62919	1202	63445	1172	63978	1142	64519	05.0
05.5	1292	61912	1261	62425	1231	62945	1200	63472	1170	64005	1141	64546	04.5
06.0	1291	61938	1260	62451	1229	62972	1199	63498	1169	64032	1139	64573	04.0
06.5	1289	61963	1258	62477	1227	62998	1197	63525	1167	64059	1138	64600	03.5
07.0	1288	61989	1257	62503	1226	63024	1196	63551	1166	64086	1136	64627	03.0
07.5	1286	62014	1255	62529	1224	63050	1194	63578	1164	64113	1135	64655	02.5
08.0	1285	62040	1254	62555	1223	63076	1193	63605	1163	64140	1133	64682	02.0
08.5	1283	62065	1252	62581	1221	63103	1191	63631	1161	64167	1132	64709	01.5
09.0	1281	62091	1250	62607	1220	63129	1190	63658	1160	64194	1131	64737	01.0
09.5	1280	62117	1249	62633	1218	63155	1188	63684	1158	64221	1129	64764	00.5
10.0	1278	62142	1247	62659	1217	63181	1187	63711	1157	64248	1128	64791	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

103°

77°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	1128	64791	1099	65342	1070	65900	1042	66466	1014	67040	987	67622	10.0
00.5	1126	64819	1097	65370	1069	65928	1040	66495	1013	67069	985	67651	09.5
01.0	1125	64846	1096	65398	1067	65957	1039	66523	1011	67098	984	67681	09.0
01.5	1123	64873	1094	65425	1066	65985	1038	66552	1010	67127	983	67710	08.5
02.0	1122	64901	1093	65453	1064	66013	1036	66580	1009	67156	981	67739	08.0
02.5	1120	64928	1091	65481	1063	66041	1035	66609	1007	67185	980	67769	07.5
03.0	1119	64956	1090	65509	1062	66069	1033	66638	1006	67214	978	67798	07.0
03.5	1117	64983	1089	65537	1060	66098	1032	66666	1004	67243	977	67828	06.5
04.0	1116	65011	1087	65564	1059	66126	1031	66695	1003	67272	976	67857	06.0
04.5	1115	65038	1086	65592	1057	66154	1029	66724	1002	67301	974	67887	05.5
05.0	1113	65066	1084	65620	1056	66182	1028	66752	1000	67330	973	67916	05.0
05.5	1112	65093	1083	65648	1054	66211	1027	66781	999	67359	972	67946	04.5
06.0	1110	65121	1081	65676	1053	66239	1025	66810	998	67388	970	67975	04.0
06.5	1109	65148	1080	65704	1052	66267	1024	66838	996	67417	969	68005	03.5
07.0	1107	65176	1079	65732	1050	66296	1022	66867	995	67447	968	68034	03.0
07.5	1106	65204	1077	65760	1049	66324	1021	66896	993	67476	966	68064	02.5
08.0	1104	65231	1076	65788	1047	66353	1020	66925	992	67505	965	68093	02.0
08.5	1103	65259	1074	65816	1046	66381	1018	66954	991	67534	964	68123	01.5
09.0	1102	65287	1073	65844	1045	66409	1017	66982	989	67563	962	68153	01.0
09.5	1100	65314	1071	65872	1043	66438	1015	67011	988	67593	961	68182	00.5
10.0	1099	65342	1070	65900	1042	66466	1014	67040	987	67622	960	68212	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

102°

78°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	960	68212	933	68811	907	69418	881	70034	855	70660	830	71295	10.0
00.5	958	68242	932	68841	905	69449	879	70066	854	70692	829	71327	09.5
01.0	957	68272	930	68871	904	69479	878	70097	853	70723	828	71359	09.0
01.5	956	68301	929	68901	903	69510	877	70128	851	70755	826	71391	08.5
02.0	954	68331	928	68932	901	69541	876	70159	850	70786	825	71423	08.0
02.5	953	68361	926	68962	900	69571	874	70190	849	70818	824	71455	07.5
03.0	952	68391	925	68992	899	69602	873	70221	848	70850	823	71488	07.0
03.5	950	68421	924	69022	898	69633	872	70252	846	70881	821	71520	06.5
04.0	949	68451	922	69053	896	69664	870	70284	845	70913	820	71552	06.0
04.5	948	68480	921	69083	895	69694	869	70315	844	70945	819	71584	05.5
05.0	946	68510	920	69113	894	69725	868	70346	843	70976	818	71616	05.0
05.5	945	68540	918	69144	892	69756	867	70377	841	71008	816	71649	04.5
06.0	944	68570	917	69174	891	69787	865	70409	840	71040	815	71681	04.0
06.5	942	68600	916	69205	890	69818	864	70440	839	71072	814	71713	03.5
07.0	941	68630	914	69235	888	69849	863	70471	838	71104	813	71746	03.0
07.5	940	68660	913	69265	887	69880	862	70503	836	71136	811	71778	02.5
08.0	938	68690	912	69296	886	69910	860	70534	835	71167	810	71810	02.0
08.5	937	68720	911	69326	885	69941	859	70566	834	71199	809	71843	01.5
09.0	936	68750	909	69357	883	69972	858	70597	833	71231	808	71875	01.0
09.5	934	68781	908	69388	882	70003	856	70629	831	71263	807	71908	00.5
10.0	933	68811	907	69418	881	70034	855	70660	830	71295	805	71940	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

101°

79°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	805	71940	781	72595	757	73261	733	73937	710	74624	687	75323	10.0
00.5	804	71973	780	72628	756	73294	732	73971	709	74659	686	75358	09.5
01.0	803	72005	779	72661	755	73328	731	74005	708	74693	685	75393	09.0
01.5	802	72038	777	72694	753	73361	730	74039	707	74728	684	75428	08.5
02.0	800	72070	776	72727	752	73395	729	74073	706	74763	683	75464	08.0
02.5	799	72103	775	72760	751	73429	728	74107	704	74797	682	75499	07.5
03.0	798	72136	774	72794	750	73462	726	74142	703	74832	681	75534	07.0
03.5	797	72168	773	72827	749	73496	725	74176	702	74867	679	75570	06.5
04.0	796	72201	771	72860	748	73530	724	74210	701	74902	678	75605	06.0
04.5	794	72234	770	72893	746	73563	723	74245	700	74937	677	75641	05.5
05.0	793	72266	769	72927	745	73597	722	74279	699	74972	676	75676	05.0
05.5	792	72299	768	72960	744	73631	721	74313	698	75007	675	75712	04.5
06.0	791	72332	767	72993	743	73665	719	74348	696	75042	674	75747	04.0
06.5	789	72365	765	73026	742	73699	718	74382	695	75077	673	75783	03.5
07.0	788	72398	764	73060	740	73733	717	74417	694	75112	672	75819	03.0
07.5	787	72430	763	73093	739	73767	716	74451	693	75147	670	75854	02.5
08.0	786	72463	762	73127	738	73801	715	74486	692	75182	669	75890	02.0
08.5	785	72496	761	73160	737	73835	714	74520	691	75217	668	75926	01.5
09.0	783	72529	759	73194	736	73869	712	74555	690	75252	667	75961	01.0
09.5	782	72562	758	73227	735	73903	711	74589	688	75287	666	75997	00.5
10.0	781	72595	757	73261	733	73937	710	74624	687	75323	665	76033	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

100°

Warning: This page has been generated by a computer program. Complex computer programs usually have bugs and may produce wrong data. The data on this page is believed to be accurate but no warranty is given for it's correctness. Use it only for training and exercising!

80°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	665	76033	643	76756	621	77491	600	78239	579	79001	558	79777	10.0
00.5	664	76069	642	76792	620	77528	599	78277	578	79039	557	79816	09.5
01.0	663	76105	641	76829	619	77565	598	78315	577	79078	556	79855	09.0
01.5	662	76141	639	76865	618	77602	597	78352	576	79116	555	79894	08.5
02.0	660	76177	638	76902	617	77639	596	78390	575	79155	554	79933	08.0
02.5	659	76212	637	76938	616	77677	594	78428	574	79193	553	79973	07.5
03.0	658	76248	636	76975	615	77714	593	78466	573	79232	552	80012	07.0
03.5	657	76284	635	77011	614	77751	592	78504	572	79271	551	80051	06.5
04.0	656	76321	634	77048	612	77789	591	78542	571	79309	550	80091	06.0
04.5	655	76357	633	77085	611	77826	590	78580	569	79348	549	80130	05.5
05.0	654	76393	632	77122	610	77863	589	78618	568	79387	548	80170	05.0
05.5	653	76429	631	77158	609	77901	588	78656	567	79426	547	80209	04.5
06.0	652	76465	630	77195	608	77938	587	78694	566	79465	546	80249	04.0
06.5	650	76501	629	77232	607	77976	586	78733	565	79503	545	80289	03.5
07.0	649	76538	628	77269	606	78013	585	78771	564	79542	544	80328	03.0
07.5	648	76574	626	77306	605	78051	584	78809	563	79581	543	80368	02.5
08.0	647	76610	625	77343	604	78088	583	78847	562	79620	542	80408	02.0
08.5	646	76646	624	77380	603	78126	582	78886	561	79659	541	80447	01.5
09.0	645	76683	623	77417	602	78164	581	78924	560	79698	540	80487	01.0
09.5	644	76719	622	77454	601	78201	580	78962	559	79737	539	80527	00.5
10.0	643	76756	621	77491	600	78239	579	79001	558	79777	538	80567	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

81°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	538	80567	518	81372	499	82193	480	83030	461	83884	443	84755	10.0
00.5	537	80607	517	81413	498	82234	479	83072	460	83927	442	84799	09.5
01.0	536	80647	516	81453	497	82276	478	83114	459	83970	441	84843	09.0
01.5	535	80687	515	81494	496	82317	477	83157	458	84013	440	84887	08.5
02.0	534	80727	514	81535	495	82359	476	83199	457	84056	439	84931	08.0
02.5	533	80767	513	81576	494	82401	475	83242	456	84100	438	84976	07.5
03.0	532	80807	512	81617	493	82442	474	83284	455	84143	437	85020	07.0
03.5	531	80847	511	81657	492	82484	473	83327	455	84187	436	85064	06.5
04.0	530	80887	510	81698	491	82526	472	83369	454	84230	435	85109	06.0
04.5	529	80927	509	81739	490	82567	471	83412	453	84274	435	85153	05.5
05.0	528	80967	508	81780	489	82609	470	83455	452	84317	434	85197	05.0
05.5	527	81008	507	81821	488	82651	469	83497	451	84361	433	85242	04.5
06.0	526	81048	506	81863	487	82693	468	83540	450	84404	432	85286	04.0
06.5	525	81088	506	81904	486	82735	467	83583	449	84448	431	85331	03.5
07.0	524	81129	505	81945	485	82777	467	83626	448	84492	430	85376	03.0
07.5	523	81169	504	81986	484	82819	466	83669	447	84535	429	85420	02.5
08.0	522	81210	503	82027	483	82861	465	83711	446	84579	428	85465	02.0
08.5	521	81250	502	82069	483	82903	464	83754	445	84623	427	85510	01.5
09.0	520	81291	501	82110	482	82945	463	83797	444	84667	426	85555	01.0
09.5	519	81331	500	82151	481	82988	462	83841	444	84711	426	85600	00.5
10.0	518	81372	499	82193	480	83030	461	83884	443	84755	425	85644	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

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82°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	425	85644	407	86553	390	87481	373	88430	357	89401	341	90394	10.0
00.5	424	85689	406	86599	389	87528	372	88478	356	89450	340	90444	09.5
01.0	423	85734	405	86645	388	87575	371	88526	355	89499	339	90494	09.0
01.5	422	85780	405	86691	387	87622	371	88574	354	89548	338	90545	08.5
02.0	421	85825	404	86737	387	87669	370	88623	353	89598	337	90595	08.0
02.5	420	85870	403	86783	386	87717	369	88671	353	89647	337	90646	07.5
03.0	419	85915	402	86829	385	87764	368	88719	352	89696	336	90696	07.0
03.5	419	85960	401	86876	384	87811	367	88767	351	89746	335	90747	06.5
04.0	418	86006	400	86922	383	87858	367	88816	350	89795	334	90798	06.0
04.5	417	86051	399	86968	382	87906	366	88864	349	89845	334	90848	05.5
05.0	416	86096	399	87015	382	87953	365	88913	349	89894	333	90899	05.0
05.5	415	86142	398	87061	381	88001	364	88961	348	89944	332	90950	04.5
06.0	414	86187	397	87108	380	88048	363	89010	347	89994	331	91001	04.0
06.5	413	86233	396	87154	379	88096	362	89059	346	90044	330	91052	03.5
07.0	412	86278	395	87201	378	88143	362	89107	345	90093	330	91103	03.0
07.5	412	86324	394	87247	377	88191	361	89156	345	90143	329	91154	02.5
08.0	411	86370	393	87294	376	88239	360	89205	344	90193	328	91205	02.0
08.5	410	86415	393	87341	376	88287	359	89254	343	90243	327	91256	01.5
09.0	409	86461	392	87388	375	88334	358	89303	342	90293	326	91308	01.0
09.5	408	86507	391	87434	374	88382	358	89352	341	90344	326	91359	00.5
10.0	407	86553	390	87481	373	88430	357	89401	341	90394	325	91411	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

97°

83°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	325	91411	310	92452	295	93519	280	94614	266	95738	252	96891	10.0
00.5	324	91462	309	92505	294	93574	279	94670	265	95794	251	96950	09.5
01.0	323	91514	308	92558	293	93628	279	94725	264	95851	251	97008	09.0
01.5	323	91565	307	92610	292	93682	278	94781	264	95909	250	97067	08.5
02.0	322	91617	307	92663	292	93736	277	94836	263	95966	249	97126	08.0
02.5	321	91669	306	92716	291	93790	276	94892	262	96023	249	97184	07.5
03.0	320	91720	305	92769	290	93845	276	94948	262	96080	248	97243	07.0
03.5	320	91772	304	92823	290	93899	275	95004	261	96138	247	97302	06.5
04.0	319	91824	304	92876	289	93954	274	95060	260	96195	247	97361	06.0
04.5	318	91876	303	92929	288	94009	274	95116	260	96253	246	97421	05.5
05.0	317	91928	302	92982	287	94063	273	95172	259	96310	245	97480	05.0
05.5	316	91980	301	93036	287	94118	272	95228	258	96368	245	97539	04.5
06.0	316	92032	301	93089	286	94173	272	95285	258	96426	244	97598	04.0
06.5	315	92085	300	93143	285	94228	271	95341	257	96484	243	97658	03.5
07.0	314	92137	299	93196	284	94283	270	95397	256	96542	243	97717	03.0
07.5	313	92189	298	93250	284	94338	269	95454	255	96600	242	97777	02.5
08.0	313	92242	298	93304	283	94393	269	95510	255	96658	241	97837	02.0
08.5	312	92294	297	93358	282	94448	268	95567	254	96716	241	97897	01.5
09.0	311	92347	296	93411	282	94503	267	95624	253	96774	240	97957	01.0
09.5	310	92399	295	93465	281	94559	267	95681	253	96833	239	98016	00.5
10.0	310	92452	295	93519	280	94614	266	95738	252	96891	239	98077	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

96°

84°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	239	98077	225	99296	213	100550	200	101843	188	103175	177	104550	10.0
00.5	238	98137	225	99358	212	100614	200	101908	188	103243	176	104620	09.5
01.0	237	98197	224	99419	212	100678	199	101974	187	103311	176	104690	09.0
01.5	237	98257	224	99482	211	100742	199	102040	187	103379	175	104760	08.5
02.0	236	98318	223	99544	210	100806	198	102106	186	103447	175	104830	08.0
02.5	235	98378	222	99606	210	100870	197	102172	185	103515	174	104901	07.5
03.0	235	98439	222	99668	209	100934	197	102238	185	103583	173	104971	07.0
03.5	234	98499	221	99731	208	100998	196	102304	184	103651	173	105042	06.5
04.0	233	98560	220	99793	208	101063	196	102371	184	103720	172	105113	06.0
04.5	233	98621	220	99856	207	101127	195	102437	183	103788	172	105183	05.5
05.0	232	98682	219	99918	207	101192	194	102504	183	103857	171	105254	05.0
05.5	231	98743	218	99981	206	101256	194	102570	182	103926	171	105325	04.5
06.0	231	98804	218	100044	205	101321	193	102637	181	103995	170	105397	04.0
06.5	230	98865	217	100107	205	101386	193	102704	181	104064	169	105468	03.5
07.0	229	98926	217	100170	204	101451	192	102771	180	104133	169	105539	03.0
07.5	229	98988	216	100233	203	101516	191	102838	180	104202	168	105611	02.5
08.0	228	99049	215	100296	203	101581	191	102905	179	104272	168	105683	02.0
08.5	227	99111	215	100360	202	101646	190	102973	179	104341	167	105754	01.5
09.0	227	99172	214	100423	202	101712	190	103040	178	104411	167	105826	01.0
09.5	226	99234	213	100487	201	101777	189	103108	177	104480	166	105898	00.5
10.0	225	99296	213	100550	200	101843	188	103175	177	104550	166	105970	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

85°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	166	105970	155	107439	144	108960	134	110536	124	112171	115	113872	10.0
00.5	165	106043	154	107514	144	109037	134	110616	124	112255	114	113958	09.5
01.0	164	106115	154	107589	143	109115	133	110696	123	112339	114	114045	09.0
01.5	164	106188	153	107664	143	109192	133	110777	123	112422	114	114133	08.5
02.0	163	106260	153	107739	142	109270	132	110858	122	112506	113	114220	08.0
02.5	163	106333	152	107814	142	109348	132	110939	122	112590	113	114307	07.5
03.0	162	106406	152	107890	141	109426	131	111020	121	112675	112	114395	07.0
03.5	162	106479	151	107965	141	109505	131	111101	121	112759	112	114483	06.5
04.0	161	106552	150	108041	140	109583	130	111183	121	112844	111	114571	06.0
04.5	161	106625	150	108117	140	109662	130	111264	120	112928	111	114659	05.5
05.0	160	106699	149	108193	139	109740	129	111346	120	113013	110	114748	05.0
05.5	160	106772	149	108269	139	109819	129	111428	119	113098	110	114836	04.5
06.0	159	106846	148	108345	138	109898	128	111510	119	113184	109	114925	04.0
06.5	158	106919	148	108421	138	109977	128	111592	118	113269	109	115014	03.5
07.0	158	106993	147	108498	137	110057	127	111674	118	113355	109	115103	03.0
07.5	157	107067	147	108574	137	110136	127	111757	117	113440	108	115192	02.5
08.0	157	107141	146	108651	136	110216	126	111839	117	113526	108	115282	02.0
08.5	156	107216	146	108728	136	110296	126	111922	116	113612	107	115371	01.5
09.0	156	107290	145	108805	135	110375	125	112005	116	113699	107	115461	01.0
09.5	155	107364	145	108882	135	110455	125	112088	115	113785	106	115551	00.5
10.0	155	107439	144	108960	134	110536	124	112171	115	113872	106	115642	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

Warning: This page has been generated by a computer program. Complex computer programs usually have bugs and may produce wrong data. The data on this page is believed to be accurate but no warranty is given for it's correctness. Use it only for training and exercising!

86°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	106	115642	97	117487	89	119415	81	121432	74	123549	66	125774	10.0
00.5	105	115732	97	117581	89	119513	81	121536	73	123657	66	125888	09.5
01.0	105	115823	96	117676	88	119612	80	121640	73	123766	66	126003	09.0
01.5	105	115913	96	117771	88	119711	80	121743	72	123875	65	126118	08.5
02.0	104	116004	96	117866	87	119811	80	121848	72	123985	65	126233	08.0
02.5	104	116096	95	117961	87	119910	79	121952	72	124095	65	126349	07.5
03.0	103	116187	95	118056	87	120010	79	122057	71	124205	64	126465	07.0
03.5	103	116279	94	118152	86	120110	78	122162	71	124315	64	126581	06.5
04.0	102	116370	94	118248	86	120211	78	122267	71	124425	64	126697	06.0
04.5	102	116462	93	118344	85	120311	78	122372	70	124536	63	126814	05.5
05.0	102	116554	93	118440	85	120412	77	122478	70	124647	63	126931	05.0
05.5	101	116647	93	118537	85	120513	77	122584	70	124759	63	127049	04.5
06.0	101	116739	92	118633	84	120614	77	122690	69	124870	62	127166	04.0
06.5	100	116832	92	118730	84	120716	76	122796	69	124982	62	127284	03.5
07.0	100	116925	91	118827	83	120817	76	122903	68	125094	62	127403	03.0
07.5	99	117018	91	118925	83	120919	75	123010	68	125207	61	127522	02.5
08.0	99	117112	91	119022	83	121021	75	123117	68	125320	61	127641	02.0
08.5	99	117205	90	119120	82	121124	75	123225	67	125433	61	127760	01.5
09.0	98	117299	90	119218	82	121226	74	123333	67	125546	60	127880	01.0
09.5	98	117393	89	119316	81	121329	74	123441	67	125660	60	128000	00.5
10.0	97	117487	89	119415	81	121432	74	123549	66	125774	60	128120	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

93°

87°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	60	128120	53	130600	47	133231	41	136032	36	139027	31	142243	10.0
00.5	59	128241	53	130728	47	133367	41	136177	36	139182	31	142411	09.5
01.0	59	128362	52	130856	46	133503	41	136322	36	139338	31	142579	09.0
01.5	59	128483	52	130985	46	133640	41	136468	35	139494	30	142747	08.5
02.0	58	128605	52	131114	46	133777	40	136615	35	139651	30	142916	08.0
02.5	58	128727	52	131243	46	133915	40	136762	35	139809	30	143086	07.5
03.0	58	128849	51	131373	45	134053	40	136909	34	139967	30	143257	07.0
03.5	57	128972	51	131503	45	134191	39	137057	34	140126	29	143428	06.5
04.0	57	129095	51	131633	45	134330	39	137205	34	140285	29	143600	06.0
04.5	57	129219	50	131764	44	134469	39	137354	34	140445	29	143773	05.5
05.0	56	129342	50	131896	44	134609	39	137503	33	140605	29	143946	05.0
05.5	56	129466	50	132027	44	134749	38	137653	33	140766	28	144120	04.5
06.0	56	129591	49	132159	44	134890	38	137804	33	140928	28	144295	04.0
06.5	55	129716	49	132292	43	135031	38	137955	33	141090	28	144470	03.5
07.0	55	129841	49	132425	43	135173	38	138106	33	141253	28	144646	03.0
07.5	55	129967	49	132558	43	135315	37	138258	32	141417	28	144823	02.5
08.0	54	130093	48	132692	42	135457	37	138411	32	141581	27	145001	02.0
08.5	54	130219	48	132826	42	135600	37	138564	32	141745	27	145179	01.5
09.0	54	130346	48	132961	42	135744	37	138718	32	141911	27	145358	01.0
09.5	53	130473	47	133096	42	135888	36	138872	31	142077	27	145538	00.5
10.0	53	130600	47	133231	41	136032	36	139027	31	142243	26	145718	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

92°

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88°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	26	145718	22	149496	18	153634	15	158208	12	163322	9	169121	10.0
00.5	26	145899	22	149693	18	153851	15	158450	12	163595	9	169432	09.5
01.0	26	146081	22	149892	18	154070	15	158693	11	163869	9	169745	09.0
01.5	26	146264	22	150092	18	154290	14	158938	11	164144	9	170061	08.5
02.0	26	146448	21	150292	18	154511	14	159184	11	164422	8	170379	08.0
02.5	25	146632	21	150494	17	154733	14	159431	11	164701	8	170700	07.5
03.0	25	146817	21	150696	17	154956	14	159680	11	164982	8	171023	07.0
03.5	25	147003	21	150899	17	155180	14	159930	11	165265	8	171348	06.5
04.0	25	147190	21	151104	17	155406	14	160182	11	165550	8	171676	06.0
04.5	25	147377	20	151309	17	155633	13	160435	10	165836	8	172006	05.5
05.0	24	147566	20	151515	17	155861	13	160690	10	166125	8	172339	05.0
05.5	24	147755	20	151722	16	156090	13	160946	10	166415	8	172674	04.5
06.0	24	147945	20	151931	16	156320	13	161204	10	166708	8	173012	04.0
06.5	24	148136	20	152140	16	156552	13	161463	10	167002	7	173352	03.5
07.0	23	148327	19	152350	16	156784	13	161724	10	167298	7	173696	03.0
07.5	23	148520	19	152561	16	157018	13	161986	10	167597	7	174042	02.5
08.0	23	148713	19	152774	16	157254	12	162250	10	167897	7	174391	02.0
08.5	23	148908	19	152987	15	157490	12	162516	9	168200	7	174742	01.5
09.0	23	149103	19	153201	15	157728	12	162783	9	168505	7	175097	01.0
09.5	22	149299	19	153417	15	157968	12	163052	9	168812	7	175454	00.5
10.0	22	149496	18	153634	15	158208	12	163322	9	169121	7	175814	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		

89°													
↓	00'		10'		20'		30'		40'		50'		
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	
00.0	7	175814	5	183732	3	193422	2	205916	1	223525	0	253627	10.0
00.5	7	176178	5	184168	3	193969	2	206646	1	224624	0	255855	09.5
01.0	6	176544	4	184609	3	194522	2	207388	1	225752	0	258203	09.0
01.5	6	176914	4	185055	3	195082	1	208143	1	226910	0	260686	08.5
02.0	6	177287	4	185505	3	195650	1	208912	1	228100	0	263318	08.0
02.5	6	177663	4	185959	3	196225	1	209695	1	229324	0	266121	07.5
03.0	6	178042	4	186419	3	196808	1	210491	1	230583	0	269118	07.0
03.5	6	178424	4	186883	2	197399	1	211303	1	231879	0	272336	06.5
04.0	6	178811	4	187353	2	197998	1	212130	0	233216	0	275812	06.0
04.5	6	179200	4	187828	2	198605	1	212974	0	234594	0	279591	05.5
05.0	6	179593	4	188307	2	199221	1	213834	0	236018	0	283730	05.0
05.5	5	179990	4	188793	2	199846	1	214711	0	237491	0	288306	04.5
06.0	5	180390	4	189283	2	200480	1	215607	0	239015	0	293421	04.0
06.5	5	180794	3	189780	2	201124	1	216521	0	240594	0	299221	03.5
07.0	5	181202	3	190282	2	201777	1	217455	0	242233	0	305915	03.0
07.5	5	181613	3	190790	2	202440	1	218409	0	243936	0	313833	02.5
08.0	5	182029	3	191304	2	203113	1	219385	0	245709	0	323524	02.0
08.5	5	182448	3	191824	2	203797	1	220384	0	247558	0	336018	01.5
09.0	5	182872	3	192350	2	204492	1	221406	0	249488	0	353627	01.0
09.5	5	183300	3	192883	2	205198	1	222452	0	251509	0	383730	00.5
10.0	5	183732	3	193422	2	205916	1	223525	0	253627	0	-	00.0
	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	A(x)	B(x)	↑
	50'		40'		30'		20'		10'		00'		