

Times of Symmetry

hour, e.g. hour hand

	hour, e.g. hour hand																							
	acute 12	obtuse 12	acute 1	obtuse 1	acute 2	obtuse 2	acute 3	obtuse 3	acute 4	obtuse 4	acute 5	obtuse 5	acute 6	obtuse 6	acute 7	obtuse 7	acute 8	obtuse 8	acute 9	obtuse 9	acute 10	obtuse 10	acute 11	obtuse 11
0	0.000	30.273	2.523	32.796	5.046	35.319	7.568	37.842	10.091	40.364	12.614	42.887	15.137	45.410	17.659	47.933	20.182	50.456	22.705	52.978	25.228	55.501	27.751	58.024
1	0.505	30.778	3.027	33.301	5.560	35.823	8.073	38.346	10.596	40.869	13.118	43.392	15.641	45.915	18.164	48.437	20.687	50.960	23.210	53.483	25.732	56.006	28.255	58.528
2	1.009	31.282	3.532	33.805	6.055	36.328	8.577	38.851	11.100	41.374	13.623	43.896	16.146	46.419	18.669	48.942	21.191	51.465	23.714	53.987	26.237	56.510	28.760	59.033
3	1.514	31.787	4.036	34.310	6.559	36.833	9.082	39.355	11.605	41.878	14.128	44.401	16.650	46.924	19.173	49.446	21.696	51.969	24.219	54.492	26.741	57.015	29.264	59.537
4	2.018	32.292	4.541	34.814	7.064	37.337	9.587	39.860	12.109	42.383	14.632	44.905	17.155	47.428	19.678	49.951	22.200	52.474	24.723	54.996	27.246	57.519	29.769	0.042
5	2.523	32.796	5.046	35.319	7.568	37.842	10.091	40.364	12.614	42.887	15.137	45.410	17.659	47.933	20.182	50.456	22.705	52.978	25.228	55.501	27.751	58.024	30.273	0.547
6	3.027	33.301	5.550	35.823	8.073	38.346	10.596	40.869	13.118	43.392	15.641	45.915	18.164	48.437	20.687	50.960	23.210	53.483	25.732	56.006	28.255	58.528	30.778	1.051
7	3.532	33.805	6.055	36.328	8.577	38.851	11.100	41.374	13.623	43.896	16.146	46.419	18.669	48.942	21.191	51.465	23.714	53.987	26.237	56.510	28.760	59.033	31.282	1.556
8	4.036	34.310	6.559	36.833	9.082	39.355	11.605	41.878	14.128	44.401	16.650	46.924	19.173	49.446	21.696	51.969	24.219	54.492	26.741	57.015	29.264	59.537	31.787	2.060
9	4.541	34.814	7.064	37.337	9.587	39.860	12.109	42.383	14.632	44.905	17.155	47.428	19.678	49.951	22.200	52.474	24.723	54.996	27.246	57.519	29.769	0.042	32.292	2.565
10	5.046	35.319	7.568	37.842	10.091	40.364	12.614	42.887	15.137	45.410	17.659	47.933	20.182	50.456	22.705	52.978	25.228	55.501	27.751	58.024	30.273	0.547	32.796	3.069
11	5.550	35.823	8.073	38.346	10.596	40.869	13.118	43.392	15.641	45.915	18.164	48.437	20.687	50.960	23.210	53.483	25.732	56.006	28.255	58.528	30.778	1.051	33.301	3.574
12	6.055	36.328	8.577	38.851	11.100	41.374	13.623	43.896	16.146	46.419	18.669	48.942	21.191	51.465	23.714	53.987	26.237	56.510	28.760	59.033	31.282	1.556	33.805	4.078
13	6.559	36.833	9.082	39.355	11.605	41.878	14.128	44.401	16.650	46.924	19.173	49.446	21.696	51.969	24.219	54.492	26.741	57.015	29.264	59.537	31.787	2.060	34.310	4.583
14	7.064	37.337	9.587	39.860	12.109	42.383	14.632	44.905	17.155	47.428	19.678	49.951	22.200	52.474	24.723	54.996	27.246	57.519	29.769	0.042	32.292	2.565	34.814	5.088
15	7.568	37.842	10.091	40.364	12.614	42.887	15.137	45.410	17.659	47.933	20.182	50.456	22.705	52.978	25.228	55.501	27.751	58.024	30.273	0.547	32.796	3.069	35.319	5.592
16	8.073	38.346	10.596	40.869	13.118	43.392	15.641	45.915	18.164	48.437	20.687	50.960	23.210	53.483	25.732	56.006	28.255	58.528	30.778	1.051	33.301	3.574	35.823	6.097
17	8.577	38.851	11.100	41.374	13.623	43.896	16.146	46.419	18.669	48.942	21.191	51.465	23.714	53.987	26.237	56.510	28.760	59.033	31.282	1.556	33.805	4.078	36.328	6.601
18	9.082	39.355	11.605	41.878	14.128	44.401	16.650	46.924	19.173	49.446	21.696	51.969	24.219	54.492	26.741	57.015	29.264	59.537	31.787	2.060	34.310	4.583	36.833	7.106
19	9.587	39.860	12.109	42.383	14.632	44.905	17.155	47.428	19.678	49.951	22.200	52.474	24.723	54.996	27.246	57.519	29.769	0.042	32.292	2.565	34.814	5.088	37.337	7.610
20	10.091	40.364	12.614	42.887	15.137	45.410	17.659	47.933	20.182	50.456	22.705	52.978	25.228	55.501	27.751	58.024	30.273	0.547	32.796	3.069	35.319	5.592	37.842	8.115
21	10.596	40.869	13.118	43.392	15.641	45.915	18.164	48.437	20.687	50.960	23.210	53.483	25.732	56.006	28.255	58.528	30.778	1.051	33.301	3.574	35.823	6.097	38.346	8.619
22	11.100	41.374	13.623	43.896	16.146	46.419	18.669	48.942	21.191	51.465	23.714	53.987	26.237	56.510	28.760	59.033	31.282	1.556	33.805	4.078	36.328	6.601	38.851	9.124
23	11.605	41.878	14.128	44.401	16.650	46.924	19.173	49.446	21.696	51.969	24.219	54.492	26.741	57.015	29.264	59.537	31.787	2.060	34.310	4.583	36.833	7.106	39.355	9.629
24	12.109	42.383	14.632	44.905	17.155	47.428	19.678	49.951	22.200	52.474	24.723	54.996	27.246	57.519	29.769	0.042	32.292	2.565	34.814	5.088	37.337	7.610	39.860	10.133
25	12.614	42.887	15.137	45.410	17.659	47.933	20.182	50.456	22.705	52.978	25.228	55.501	27.751	58.024	30.273	0.547	32.796	3.069	35.319	5.592	37.842	8.115	40.364	10.638
26	13.118	43.392	15.641	45.915	18.164	48.437	20.687	50.960	23.210	53.483	25.732	56.006	28.255	58.528	30.778	1.051	33.301	3.574	35.823	6.097	36.328	6.601	40.869	11.142
27	13.623	43.896	16.146	46.419	18.669	48.942	21.191	51.465	23.714	53.987	26.237	56.510	28.760	59.033	31.282	1.556	33.805	4.078	36.328	6.601	38.851	9.124	41.374	11.647
28	14.128	44.401	16.650	46.924	19.173	49.446	21.696	51.969	24.219	54.492	26.741	57.015	29.264	59.537	31.787	2.060	34.310	4.583	36.833	7.106	39.355	9.629	41.878	12.151
29	14.632	44.905	17.155	47.428	19.678	49.951	22.200	52.474	24.723	54.996	27.246	57.519	29.769	0.042	32.292	2.565	34.814	5.088	37.337	7.610	39.860	10.133	42.383	12.656
30	15.137	45.410	17.659	47.933	20.182	50.456	22.705	52.978	25.228	55.501	27.751	58.024	30.273	0.547	32.796	3.069	35.319	5.592	37.842	8.115	40.364	10.638	42.887	13.160
31	15.641	45.915	18.164	48.437	20.687	50.960	23.210	53.483	25.732	56.006	28.255	58.528	30.778	1.051	33.301	3.574	35.823	6.097	38.346	8.619	40.869	11.142	43.392	13.665
32	16.146	46.419	18.669	48.942	21.191	51.465	23.714	53.987	26.237	56.510	28.760	59.033	31.282	1.556	33.805	4.078	36.328	6.601	38.851	9.124	41.374	11.647	43.896	14.170
33	16.650	46.924	19.173	49.446	21.696	51.969	24.219	54.492	26.741	57.015	29.264	59.537	31.787	2.060	34.310	4.583	36.833	7.106	39.355	9.629	41.878	12.151	44.401	14.674
34	17.155	47.428	19.678	49.951	22.200	52.474	24.723	54.996	27.246	57.519	29.769	0.042	32.292	2.565	34.814	5.088	37.337	7.610	39.860	10.133	42.383	12.656	44.905	15.179
35	17.659	47.933	20.182	50.456	22.705	52.978	25.228	55.501	27.751	58.024	30.273	0.547	32.796	3.069	35.319	5.592	37.842	8.115	40.364	10.638	42.887	13.160	45.410	15.683
36	18.164	48.437	20.687	50.960	23.210	53.483	25.732	56.006	28.255	58.528	30.778	1.051	33.301	3.574	35.823	6.097	38.346	8.619	40.869	11.142	43.392	13.665	45.915	16.188
37	18.669	48.942	21.191	51.465	23.714	53.987	26.237	56.510	28.760	59.033	31.282	1.556	33.805	4.078	36.328	6.601	38.851	9.124	41.374	11.647	43.896	14.170	46.419	16.692
38	19.173	49.446	21.696	51.969	24.219	54.492	26.741	57.015	29.264	59.537	31.787	2.060	34.310	4.583	36.833	7.106	39.355	9.629	41.878	12.151	44.401	14.674	46.924	17.197
39	19.678	49.951	22.200	52.474	24.723	54.996	27.246	57.519	29.769	0.042	32.292	2.565	34.814	5.088	37.337	7.610	39.860	10.133	42.383	12.656	44.905	15.179	47.428	17.701
40	20.182	50.456	22.705	52.978	25.228	55.501	27.751	58.024	30.273	0.547	32.796	3.069	35.319	5.592	37.842	8.115	40.364	10.638	42.887	13.160	45.410	15.683	47.933	18.206
41	20.687	50.960	23.210	53.483	25.732	56.006	28.255	58.528	30.778	1.051	33.301	3.574	35.823	6.097	38.346	8.619	40.869	11.142	43.392	13.665	45.915	16.188	48.437	18.711
42	21.191	51.465	23.714	53.987	26.237	56.510	28.760	59.033	31.282	1.556	33.805	4.078	36.328	6.601	38.851	9.124	41.374	11.647	43.896	14.170	46.419	16.692	48.942	19.215
43	21.696	51.969	24.219	54.492	26.741	57.015	29.264	59.537	31.787	2.060	34.310	4.583	36.833	7.106	39.355	9.629	41.878	12.151	44.401	14.674	46.924	17.197	49.446	19.720
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