

Sinus

$\sin(0^\circ)$	$\sin(0)$	0,0000	0
$\sin(3^\circ)$	$\sin\left(\frac{\pi}{60}\right)$	0,0523	$\frac{1}{2}\sqrt{2-\frac{1}{2}\left(\frac{\sqrt{3}+\sqrt{15}}{2}+\sqrt{\frac{5-\sqrt{5}}{2}}\right)}$
$\sin(6^\circ)$	$\sin\left(\frac{\pi}{30}\right)$	0,1045	$\frac{1}{4}\left(\sqrt{\frac{15-3\sqrt{5}}{2}}-\frac{1+\sqrt{5}}{2}\right)$
$\sin(9^\circ)$	$\sin\left(\frac{\pi}{20}\right)$	0,1564	$\frac{1}{2}\sqrt{2-\sqrt{\frac{5+\sqrt{5}}{2}}}$
$\sin(12^\circ)$	$\sin\left(\frac{\pi}{15}\right)$	0,2079	$\frac{\sqrt{10+2\sqrt{5}-\sqrt{15}+\sqrt{3}}}{8}$
$\sin(15^\circ)$	$\sin\left(\frac{\pi}{12}\right)$	0,2588	$\frac{\sqrt{6}-\sqrt{2}}{4}$
$\sin(18^\circ)$	$\sin\left(\frac{\pi}{10}\right)$	0,3090	$\frac{\sqrt{5}-1}{4}$
$\sin(21^\circ)$	$\sin\left(\frac{7\pi}{60}\right)$	0,3584	$\frac{1}{4}\left(\sqrt{2+\sqrt{\frac{5+\sqrt{5}}{2}}}-\sqrt{6-3\sqrt{\frac{5+\sqrt{5}}{2}}}\right)$
$\sin(22,5^\circ)$	$\sin\left(\frac{\pi}{8}\right)$	0,3827	$\frac{\sqrt{2-\sqrt{2}}}{2}$
$\sin(24^\circ)$	$\sin\left(\frac{2\pi}{15}\right)$	0,4067	$\frac{-\sqrt{10-2\sqrt{5}+\sqrt{15}+\sqrt{3}}}{8}$
$\sin(27^\circ)$	$\sin\left(\frac{3\pi}{20}\right)$	0,4540	$\frac{1}{2}\sqrt{2-\sqrt{\frac{5-\sqrt{5}}{2}}}$
$\sin(30^\circ)$	$\sin\left(\frac{\pi}{6}\right)$	0,5000	$\frac{1}{2}$
$\sin(33^\circ)$	$\sin\left(\frac{11\pi}{60}\right)$	0,5446	$\frac{1}{2}\sqrt{2-\frac{1}{2}\left(\frac{\sqrt{3}+\sqrt{15}}{2}-\sqrt{\frac{5-\sqrt{5}}{2}}\right)}$
$\sin(36^\circ)$	$\sin\left(\frac{\pi}{4}\right)$	0,5878	$\frac{\sqrt{10-2\sqrt{5}}}{4}$
$\sin(39^\circ)$	$\sin\left(\frac{13\pi}{60}\right)$	0,6293	$\frac{1}{4}\left(\sqrt{2+\sqrt{\frac{5+\sqrt{5}}{2}}}+\sqrt{6-3\sqrt{\frac{5+\sqrt{5}}{2}}}\right)$
$\sin(42^\circ)$	$\sin\left(\frac{7\pi}{30}\right)$	0,6691	$\frac{1}{4}\left(\sqrt{\frac{15+3\sqrt{5}}{2}}-\frac{\sqrt{5}-1}{2}\right)$
$\sin(45^\circ)$	$\sin\left(\frac{\pi}{4}\right)$	0,7071	$\frac{\sqrt{2}}{2}$
$\sin(48^\circ)$	$\sin\left(\frac{4\pi}{15}\right)$	0,7431	$\frac{\sqrt{10+2\sqrt{5}+\sqrt{15}-\sqrt{3}}}{8}$
$\sin(51^\circ)$	$\sin\left(\frac{17\pi}{60}\right)$	0,7771	$\frac{1}{4}\left(-\sqrt{2-\sqrt{\frac{5+\sqrt{5}}{2}}}+\sqrt{6+3\sqrt{\frac{5+\sqrt{5}}{2}}}\right)$
$\sin(54^\circ)$	$\sin\left(\frac{3\pi}{10}\right)$	0,8090	$\frac{\sqrt{5}+1}{4}$

$\sin(57^\circ)$	$\sin\left(\frac{19\pi}{60}\right)$	0,8387	$\frac{1}{2}\sqrt{2+\frac{1}{2}\left(\frac{\sqrt{3}+\sqrt{15}}{2}-\sqrt{\frac{5-\sqrt{5}}{2}}\right)}$
$\sin(60^\circ)$	$\sin\left(\frac{\pi}{3}\right)$	0,8660	$\frac{\sqrt{3}}{2}$
$\sin(63^\circ)$	$\sin\left(\frac{7\pi}{20}\right)$	0,8910	$\frac{1}{2}\sqrt{2+\sqrt{\frac{5-\sqrt{5}}{2}}}$
$\sin(66^\circ)$	$\sin\left(\frac{11\pi}{30}\right)$	0,9135	$\frac{1}{4}\left(\sqrt{\frac{15-3\sqrt{5}}{2}}+\frac{1+\sqrt{5}}{2}\right)$
$\sin(67,5^\circ)$	$\sin\left(\frac{3\pi}{8}\right)$	0,9239	$\frac{\sqrt{2+\sqrt{2}}}{2}$
$\sin(69^\circ)$	$\sin\left(\frac{23\pi}{60}\right)$	0,9336	$\frac{1}{4}\left(\sqrt{2-\sqrt{\frac{5+\sqrt{5}}{2}}}+\sqrt{6+3\sqrt{\frac{5+\sqrt{5}}{2}}}\right)$
$\sin(72^\circ)$	$\sin\left(\frac{2\pi}{5}\right)$	0,9511	$\frac{\sqrt{10+2\sqrt{5}}}{4}$
$\sin(75^\circ)$	$\sin\left(\frac{5\pi}{12}\right)$	0,9659	$\frac{\sqrt{6}+\sqrt{2}}{4}$
$\sin(78^\circ)$	$\sin\left(\frac{13\pi}{30}\right)$	0,9781	$\frac{1}{4}\left(\sqrt{\frac{15+3\sqrt{5}}{2}}+\frac{\sqrt{5}-1}{2}\right)$
$\sin(81^\circ)$	$\sin\left(\frac{9\pi}{20}\right)$	0,9877	$\frac{1}{2}\sqrt{2+\sqrt{\frac{5+\sqrt{5}}{2}}}$
$\sin(84^\circ)$	$\sin\left(\frac{7\pi}{15}\right)$	0,9945	$\frac{\sqrt{10-2\sqrt{5}}+\sqrt{15}+\sqrt{3}}{8}$
$\sin(87^\circ)$	$\sin\left(\frac{29\pi}{60}\right)$	0,9986	$\frac{1}{2}\sqrt{2+\frac{1}{2}\left(\frac{\sqrt{3}+\sqrt{15}}{2}+\sqrt{\frac{5-\sqrt{5}}{2}}\right)}$
$\sin(90^\circ)$	$\sin\left(\frac{\pi}{2}\right)$	1,0000	1
$\sin(93^\circ)$	$\sin\left(\frac{31\pi}{60}\right)$	0,9986	$\frac{1}{2}\sqrt{2+\frac{1}{2}\left(\frac{\sqrt{3}+\sqrt{15}}{2}+\sqrt{\frac{5-\sqrt{5}}{2}}\right)}$
$\sin(96^\circ)$	$\sin\left(\frac{8\pi}{15}\right)$	0,9945	$\frac{\sqrt{10-2\sqrt{5}}+\sqrt{15}+\sqrt{3}}{8}$
$\sin(99^\circ)$	$\sin\left(\frac{11\pi}{20}\right)$	0,9877	$\frac{1}{2}\sqrt{2+\sqrt{\frac{5+\sqrt{5}}{2}}}$
$\sin(102^\circ)$	$\sin\left(\frac{17\pi}{30}\right)$	0,9781	$\frac{1}{4}\left(\sqrt{\frac{15+3\sqrt{5}}{2}}+\frac{\sqrt{5}-1}{2}\right)$
$\sin(105^\circ)$	$\sin\left(\frac{7\pi}{12}\right)$	0,9659	$\frac{\sqrt{6}+\sqrt{2}}{4}$
$\sin(108^\circ)$	$\sin\left(\frac{3\pi}{5}\right)$	0,9511	$\frac{\sqrt{10+2\sqrt{5}}}{4}$
$\sin(111^\circ)$	$\sin\left(\frac{37\pi}{60}\right)$	0,9336	$\frac{1}{4}\left(\sqrt{2-\sqrt{\frac{5+\sqrt{5}}{2}}}+\sqrt{6+3\sqrt{\frac{5+\sqrt{5}}{2}}}\right)$
$\sin(112,5^\circ)$	$\sin\left(\frac{5\pi}{8}\right)$	0,9239	$\frac{\sqrt{2+\sqrt{2}}}{2}$

$\sin(114^\circ)$	$\sin\left(\frac{19\pi}{30}\right)$	0,9135	$\frac{1}{4}\left(\sqrt{\frac{15-3\sqrt{5}}{2}} + \frac{1+\sqrt{5}}{2}\right)$
$\sin(117^\circ)$	$\sin\left(\frac{13\pi}{20}\right)$	0,8910	$\frac{1}{2}\sqrt{2+\sqrt{\frac{5-\sqrt{5}}{2}}}$
$\sin(120^\circ)$	$\sin\left(\frac{2\pi}{3}\right)$	0,8660	$\frac{\sqrt{3}}{2}$
$\sin(123^\circ)$	$\sin\left(\frac{41\pi}{60}\right)$	0,8387	$\frac{1}{2}\sqrt{2+\frac{1}{2}\left(\frac{\sqrt{3}+\sqrt{15}}{2}-\sqrt{\frac{5-\sqrt{5}}{2}}\right)}$
$\sin(126^\circ)$	$\sin\left(\frac{7\pi}{10}\right)$	0,8090	$\frac{\sqrt{5}+1}{4}$
$\sin(129^\circ)$	$\sin\left(\frac{43\pi}{60}\right)$	0,7771	$\frac{1}{4}\left(-\sqrt{2-\sqrt{\frac{5+\sqrt{5}}{2}}} + \sqrt{6+3\sqrt{\frac{5+\sqrt{5}}{2}}}\right)$
$\sin(132^\circ)$	$\sin\left(\frac{11\pi}{15}\right)$	0,7431	$\frac{\sqrt{10+2\sqrt{5}+\sqrt{15}-\sqrt{3}}}{8}$
$\sin(135^\circ)$	$\sin\left(\frac{3\pi}{4}\right)$	0,7071	$\frac{\sqrt{2}}{2}$
$\sin(138^\circ)$	$\sin\left(\frac{23\pi}{30}\right)$	0,6691	$\frac{1}{4}\left(\sqrt{\frac{15+3\sqrt{5}}{2}} - \frac{\sqrt{5}-1}{2}\right)$
$\sin(141^\circ)$	$\sin\left(\frac{47\pi}{60}\right)$	0,6293	$\frac{1}{4}\left(\sqrt{2+\sqrt{\frac{5+\sqrt{5}}{2}}} + \sqrt{6-3\sqrt{\frac{5+\sqrt{5}}{2}}}\right)$
$\sin(144^\circ)$	$\sin\left(\frac{4\pi}{5}\right)$	0,5878	$\frac{\sqrt{10-2\sqrt{5}}}{4}$
$\sin(147^\circ)$	$\sin\left(\frac{49\pi}{60}\right)$	0,5446	$\frac{1}{2}\sqrt{2-\frac{1}{2}\left(\frac{\sqrt{3}+\sqrt{15}}{2}-\sqrt{\frac{5-\sqrt{5}}{2}}\right)}$
$\sin(150^\circ)$	$\sin\left(\frac{5\pi}{6}\right)$	0,5000	$\frac{1}{2}$
$\sin(153^\circ)$	$\sin\left(\frac{17\pi}{20}\right)$	0,4540	$\frac{1}{2}\sqrt{2-\sqrt{\frac{5-\sqrt{5}}{2}}}$
$\sin(156^\circ)$	$\sin\left(\frac{13\pi}{15}\right)$	0,4067	$\frac{-\sqrt{10-2\sqrt{5}+\sqrt{15}+\sqrt{3}}}{8}$
$\sin(157,5^\circ)$	$\sin\left(\frac{7\pi}{8}\right)$	0,3827	$\frac{\sqrt{2-\sqrt{2}}}{2}$
$\sin(159^\circ)$	$\sin\left(\frac{53\pi}{60}\right)$	0,3584	$\frac{1}{4}\left(\sqrt{2+\sqrt{\frac{5+\sqrt{5}}{2}}} - \sqrt{6-3\sqrt{\frac{5+\sqrt{5}}{2}}}\right)$
$\sin(162^\circ)$	$\sin\left(\frac{9\pi}{10}\right)$	0,3090	$\frac{\sqrt{5}-1}{4}$
$\sin(165^\circ)$	$\cos\left(\frac{11\pi}{12}\right)$	0,2588	$\frac{\sqrt{6}-\sqrt{2}}{4}$
$\sin(168^\circ)$	$\sin\left(\frac{14\pi}{15}\right)$	0,2079	$\frac{\sqrt{10+2\sqrt{5}-\sqrt{15}+\sqrt{3}}}{8}$
$\sin(171^\circ)$	$\sin\left(\frac{57\pi}{60}\right)$	0,1564	$\frac{1}{2}\sqrt{2-\sqrt{\frac{5+\sqrt{5}}{2}}}$

$\sin(174^\circ)$	$\sin\left(\frac{29\pi}{30}\right)$	0,1045	$\frac{1}{4}\left(\sqrt{\frac{15-3\sqrt{5}}{2}}-\frac{1+\sqrt{5}}{2}\right)$
$\sin(177^\circ)$	$\sin\left(\frac{59\pi}{60}\right)$	0,0523	$\frac{1}{2}\sqrt{2-\frac{1}{2}\left(\frac{\sqrt{3}+\sqrt{15}}{2}+\sqrt{\frac{5-\sqrt{5}}{2}}\right)}$
$\sin(180^\circ)$	$\sin(\pi)$	0,0000	0
$\sin(183^\circ)$	$\sin\left(\frac{61\pi}{60}\right)$	-0,0523	$-\frac{1}{2}\sqrt{2-\frac{1}{2}\left(\frac{\sqrt{3}+\sqrt{15}}{2}+\sqrt{\frac{5-\sqrt{5}}{2}}\right)}$
$\sin(186^\circ)$	$\sin\left(\frac{31\pi}{30}\right)$	-0,1045	$-\frac{1}{4}\left(\sqrt{\frac{15-3\sqrt{5}}{2}}-\frac{1+\sqrt{5}}{2}\right)$
$\sin(189^\circ)$	$\sin\left(\frac{21\pi}{20}\right)$	-0,1564	$-\frac{1}{2}\sqrt{2-\sqrt{\frac{5+\sqrt{5}}{2}}}$
$\sin(192^\circ)$	$\sin\left(\frac{16\pi}{15}\right)$	-0,2079	$-\frac{\sqrt{10+2\sqrt{5}}-\sqrt{15}+\sqrt{3}}{8}$
$\sin(195^\circ)$	$\sin\left(\frac{13\pi}{12}\right)$	-0,2588	$-\frac{\sqrt{6}-\sqrt{2}}{4}$
$\sin(198^\circ)$	$\sin\left(\frac{11\pi}{10}\right)$	-0,3090	$-\frac{\sqrt{5}-1}{4}$
$\sin(201^\circ)$	$\sin\left(\frac{67\pi}{60}\right)$	-0,3584	$-\frac{1}{4}\left(\sqrt{2+\sqrt{\frac{5+\sqrt{5}}{2}}}-\sqrt{6-3\sqrt{\frac{5+\sqrt{5}}{2}}}\right)$
$\sin(202,5^\circ)$	$\sin\left(\frac{9\pi}{8}\right)$	-0,3827	$-\frac{\sqrt{2}-\sqrt{2}}{2}$
$\sin(204^\circ)$	$\sin\left(\frac{17\pi}{15}\right)$	-0,4067	$-\frac{-\sqrt{10-2\sqrt{5}}+\sqrt{15}+\sqrt{3}}{8}$
$\sin(207^\circ)$	$\sin\left(\frac{23\pi}{20}\right)$	-0,4540	$-\frac{1}{2}\sqrt{2-\sqrt{\frac{5-\sqrt{5}}{2}}}$
$\sin(210^\circ)$	$\sin\left(\frac{7\pi}{6}\right)$	-0,5000	$-\frac{1}{2}$
$\sin(213^\circ)$	$\sin\left(\frac{71\pi}{60}\right)$	-0,5446	$-\frac{1}{2}\sqrt{2-\frac{1}{2}\left(\frac{\sqrt{3}+\sqrt{15}}{2}-\sqrt{\frac{5-\sqrt{5}}{2}}\right)}$
$\sin(216^\circ)$	$\sin\left(\frac{6\pi}{5}\right)$	-0,5878	$-\frac{\sqrt{10-2\sqrt{5}}}{4}$
$\sin(219^\circ)$	$\sin\left(\frac{73\pi}{60}\right)$	-0,6293	$-\frac{1}{4}\left(\sqrt{2+\sqrt{\frac{5+\sqrt{5}}{2}}}+\sqrt{6-3\sqrt{\frac{5+\sqrt{5}}{2}}}\right)$
$\sin(222^\circ)$	$\sin\left(\frac{37\pi}{30}\right)$	-0,6691	$-\frac{1}{4}\left(\sqrt{\frac{15+3\sqrt{5}}{2}}-\frac{\sqrt{5}-1}{2}\right)$
$\sin(225^\circ)$	$\sin\left(\frac{5\pi}{4}\right)$	-0,7071	$-\frac{\sqrt{2}}{2}$
$\sin(228^\circ)$	$\sin\left(\frac{19\pi}{15}\right)$	-0,7431	$-\frac{\sqrt{10+2\sqrt{5}}+\sqrt{15}-\sqrt{3}}{8}$
$\sin(231^\circ)$	$\sin\left(\frac{77\pi}{60}\right)$	-0,7771	$-\frac{1}{4}\left(-\sqrt{2-\sqrt{\frac{5+\sqrt{5}}{2}}}+\sqrt{6+3\sqrt{\frac{5+\sqrt{5}}{2}}}\right)$

$\sin(234^\circ)$	$\sin\left(\frac{13\pi}{10}\right)$	-0,8090	$-\frac{\sqrt{5}+1}{4}$
$\sin(237^\circ)$	$\sin\left(\frac{79\pi}{60}\right)$	-0,8387	$-\frac{1}{2}\sqrt{2+\frac{1}{2}\left(\frac{\sqrt{3}+\sqrt{15}}{2}-\sqrt{\frac{5-\sqrt{5}}{2}}\right)}$
$\sin(240^\circ)$	$\sin\left(\frac{4\pi}{3}\right)$	-0,8660	$-\frac{\sqrt{3}}{2}$
$\sin(243^\circ)$	$\sin\left(\frac{27\pi}{20}\right)$	-0,8910	$-\frac{1}{2}\sqrt{2+\sqrt{\frac{5-\sqrt{5}}{2}}}$
$\sin(246^\circ)$	$\sin\left(\frac{41\pi}{30}\right)$	-0,9135	$-\frac{1}{4}\left(\sqrt{\frac{15-3\sqrt{5}}{2}}+\frac{1+\sqrt{5}}{2}\right)$
$\sin(247,5^\circ)$	$\sin\left(\frac{11\pi}{8}\right)$	-0,9239	$-\frac{\sqrt{2+\sqrt{2}}}{2}$
$\sin(249^\circ)$	$\sin\left(\frac{83\pi}{60}\right)$	-0,9336	$-\frac{1}{4}\left(\sqrt{2-\sqrt{\frac{5+\sqrt{5}}{2}}}+\sqrt{6+3\sqrt{\frac{5+\sqrt{5}}{2}}}\right)$
$\sin(252^\circ)$	$\sin\left(\frac{7\pi}{5}\right)$	-0,9511	$-\frac{\sqrt{10+2\sqrt{5}}}{4}$
$\sin(255^\circ)$	$\sin\left(\frac{17\pi}{12}\right)$	-0,9659	$-\frac{\sqrt{6}+\sqrt{2}}{4}$
$\sin(258^\circ)$	$\sin\left(\frac{43\pi}{30}\right)$	-0,9781	$-\frac{1}{4}\left(\sqrt{\frac{15+3\sqrt{5}}{2}}+\frac{\sqrt{5}-1}{2}\right)$
$\sin(261^\circ)$	$\sin\left(\frac{87\pi}{60}\right)$	-0,9877	$-\frac{1}{2}\sqrt{2+\sqrt{\frac{5+\sqrt{5}}{2}}}$
$\sin(264^\circ)$	$\sin\left(\frac{22\pi}{15}\right)$	-0,9945	$-\frac{\sqrt{10-2\sqrt{5}+\sqrt{15}+\sqrt{3}}}{8}$
$\sin(267^\circ)$	$\sin\left(\frac{89\pi}{60}\right)$	-0,9986	$-\frac{1}{2}\sqrt{2+\frac{1}{2}\left(\frac{\sqrt{3}+\sqrt{15}}{2}+\sqrt{\frac{5-\sqrt{5}}{2}}\right)}$
$\sin(270^\circ)$	$\sin\left(\frac{6\pi}{4}\right)$	-1,0000	-1
$\sin(273^\circ)$	$\sin\left(\frac{91\pi}{60}\right)$	-0,9986	$-\frac{1}{2}\sqrt{2+\frac{1}{2}\left(\frac{\sqrt{3}+\sqrt{15}}{2}+\sqrt{\frac{5-\sqrt{5}}{2}}\right)}$
$\sin(276^\circ)$	$\sin\left(\frac{23\pi}{15}\right)$	-0,9945	$-\frac{\sqrt{10-2\sqrt{5}+\sqrt{15}+\sqrt{3}}}{8}$
$\sin(279^\circ)$	$\sin\left(\frac{93\pi}{60}\right)$	-0,9877	$-\frac{1}{2}\sqrt{2+\sqrt{\frac{5+\sqrt{5}}{2}}}$
$\sin(282^\circ)$	$\sin\left(\frac{47\pi}{30}\right)$	-0,9781	$-\frac{1}{4}\left(\sqrt{\frac{15+3\sqrt{5}}{2}}+\frac{\sqrt{5}-1}{2}\right)$
$\sin(285^\circ)$	$\sin\left(\frac{19\pi}{12}\right)$	-0,9659	$-\frac{\sqrt{6}+\sqrt{2}}{4}$
$\sin(288^\circ)$	$\sin\left(\frac{8\pi}{5}\right)$	-0,9511	$-\frac{\sqrt{10+2\sqrt{5}}}{4}$
$\sin(291^\circ)$	$\sin\left(\frac{97\pi}{60}\right)$	-0,9336	$-\frac{1}{4}\left(\sqrt{2-\sqrt{\frac{5+\sqrt{5}}{2}}}+\sqrt{6+3\sqrt{\frac{5+\sqrt{5}}{2}}}\right)$

$\sin(292,5^\circ)$	$\sin\left(\frac{13\pi}{8}\right)$	-0,9239	$-\frac{\sqrt{2+\sqrt{2}}}{2}$
$\sin(294^\circ)$	$\sin\left(\frac{49\pi}{30}\right)$	-0,9135	$-\frac{1}{4}\left(\sqrt{\frac{15-3\sqrt{5}}{2}}+\frac{1+\sqrt{5}}{2}\right)$
$\sin(297^\circ)$	$\sin\left(\frac{33\pi}{20}\right)$	-0,8910	$-\frac{1}{2}\sqrt{2+\sqrt{\frac{5-\sqrt{5}}{2}}}$
$\sin(300^\circ)$	$\sin\left(\frac{5\pi}{3}\right)$	-0,8660	$-\frac{\sqrt{3}}{2}$
$\sin(303^\circ)$	$\sin\left(\frac{101\pi}{60}\right)$	-0,8387	$-\frac{1}{2}\sqrt{2+\frac{1}{2}\left(\frac{\sqrt{3}+\sqrt{15}}{2}-\sqrt{\frac{5-\sqrt{5}}{2}}\right)}$
$\sin(306^\circ)$	$\sin\left(\frac{17\pi}{10}\right)$	-0,8090	$-\frac{\sqrt{5+1}}{4}$
$\sin(309^\circ)$	$\sin\left(\frac{103\pi}{60}\right)$	-0,7771	$-\frac{1}{4}\left(-\sqrt{2-\sqrt{\frac{5+\sqrt{5}}{2}}}+\sqrt{6+3\sqrt{\frac{5+\sqrt{5}}{2}}}\right)$
$\sin(312^\circ)$	$\sin\left(\frac{26\pi}{15}\right)$	-0,7431	$-\frac{\sqrt{10+2\sqrt{5}+\sqrt{15}-\sqrt{3}}}{8}$
$\sin(315^\circ)$	$\sin\left(\frac{7\pi}{4}\right)$	-0,7071	$-\frac{\sqrt{2}}{2}$
$\sin(318^\circ)$	$\sin\left(\frac{53\pi}{30}\right)$	-0,6691	$-\frac{1}{4}\left(\sqrt{\frac{15+3\sqrt{5}}{2}}-\frac{\sqrt{5}-1}{2}\right)$
$\sin(321^\circ)$	$\sin\left(\frac{107\pi}{60}\right)$	-0,6293	$-\frac{1}{4}\left(\sqrt{2+\sqrt{\frac{5+\sqrt{5}}{2}}}+\sqrt{6-3\sqrt{\frac{5+\sqrt{5}}{2}}}\right)$
$\sin(324^\circ)$	$\sin\left(\frac{9\pi}{5}\right)$	-0,5878	$-\frac{\sqrt{10-2\sqrt{5}}}{4}$
$\sin(327^\circ)$	$\sin\left(\frac{109\pi}{60}\right)$	-0,5446	$-\frac{1}{2}\sqrt{2-\frac{1}{2}\left(\frac{\sqrt{3}+\sqrt{15}}{2}-\sqrt{\frac{5-\sqrt{5}}{2}}\right)}$
$\sin(330^\circ)$	$\sin\left(\frac{11\pi}{6}\right)$	-0,5000	$-\frac{1}{2}$
$\sin(333^\circ)$	$\sin\left(\frac{37\pi}{20}\right)$	-0,4540	$-\frac{1}{2}\sqrt{2-\sqrt{\frac{5-\sqrt{5}}{2}}}$
$\sin(336^\circ)$	$\sin\left(\frac{28\pi}{15}\right)$	-0,4067	$-\frac{\sqrt{10-2\sqrt{5}+\sqrt{15}+\sqrt{3}}}{8}$
$\sin(337,5^\circ)$	$\sin\left(\frac{15\pi}{8}\right)$	-0,3827	$-\frac{\sqrt{2-\sqrt{2}}}{2}$
$\sin(339^\circ)$	$\sin\left(\frac{113\pi}{60}\right)$	-0,3584	$-\frac{1}{4}\left(\sqrt{2+\sqrt{\frac{5+\sqrt{5}}{2}}}-\sqrt{6-3\sqrt{\frac{5+\sqrt{5}}{2}}}\right)$
$\sin(342^\circ)$	$\sin\left(\frac{19\pi}{10}\right)$	-0,3090	$-\frac{\sqrt{5}-1}{4}$
$\sin(345^\circ)$	$\sin\left(\frac{23\pi}{12}\right)$	-0,2588	$-\frac{\sqrt{6}-\sqrt{2}}{4}$
$\sin(348^\circ)$	$\sin\left(\frac{29\pi}{15}\right)$	-0,2079	$-\frac{\sqrt{10+2\sqrt{5}-\sqrt{15}+\sqrt{3}}}{8}$

$\sin(351^\circ)$	$\sin\left(\frac{39\pi}{20}\right)$	-0,1564	$-\frac{1}{2}\sqrt{2-\sqrt{\frac{5+\sqrt{5}}{2}}}$
$\sin(354^\circ)$	$\sin\left(\frac{59\pi}{30}\right)$	-0,1045	$-\frac{1}{4}\left(\sqrt{\frac{15-3\sqrt{5}}{2}}-\frac{1+\sqrt{5}}{2}\right)$
$\sin(357^\circ)$	$\sin\left(\frac{119\pi}{60}\right)$	-0,0523	$-\frac{1}{2}\sqrt{2-\frac{1}{2}\left(\frac{\sqrt{3}+\sqrt{15}}{2}+\sqrt{\frac{5-\sqrt{5}}{2}}\right)}$
$\sin(360^\circ)$	$\sin(2\pi)$	0,0000	0

28.03.2022
(c) Jürgen Meier
www.3d-meier.de