

valori delle funzioni goniometriche di archi particolari

Gradi	Radiani	Seno	Coseno	Tangente	Cotangente	Secante	Cosecante
0°	0	0	1	0	$\pm\infty$	1	$\pm\infty$
9°	$\frac{1}{20}\pi$	$\frac{\sqrt{3+\sqrt{5}}-\sqrt{5}-\sqrt{5}}{4}$	$\frac{\sqrt{3+\sqrt{5}}+\sqrt{5}-\sqrt{5}}{4}$	$\frac{4-\sqrt{10+2\sqrt{5}}}{\sqrt{5}-1}$	$\frac{\sqrt{5}-1}{4-\sqrt{10+2\sqrt{5}}}$	$\frac{4}{\sqrt{3+\sqrt{5}}+\sqrt{5}-\sqrt{5}}$	$\frac{4}{\sqrt{3+\sqrt{5}}-\sqrt{5}-\sqrt{5}}$
15°	$\frac{1}{12}\pi$	$\frac{\sqrt{6}-\sqrt{2}}{4}$	$\frac{\sqrt{6}+\sqrt{2}}{4}$	$2-\sqrt{5}$	$2+\sqrt{5}$	$\sqrt{6}-\sqrt{2}$	$\sqrt{6}+\sqrt{2}$
18°	$\frac{1}{10}\pi$	$\frac{\sqrt{5}-1}{4}$	$\frac{\sqrt{10+2\sqrt{5}}}{4}$	$\frac{\sqrt{25-10\sqrt{5}}}{5}$	$\sqrt{5+2\sqrt{5}}$	$\sqrt{\frac{10-2\sqrt{5}}{5}}$	$\sqrt{5}+1$
22°30'	$\frac{1}{8}\pi$	$\frac{\sqrt{2}-\sqrt{2}}{2}$	$\frac{\sqrt{2}+\sqrt{2}}{2}$	$\sqrt{2}-1$	$\sqrt{2}+1$	$\frac{2}{\sqrt{2}+\sqrt{2}}$	$\frac{2}{\sqrt{2}-\sqrt{2}}$
30°	$\frac{1}{6}\pi$	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{3}}{3}$	$\sqrt{3}$	$\frac{2\sqrt{3}}{3}$	2
36°	$\frac{1}{5}\pi$	$\frac{\sqrt{10-2\sqrt{5}}}{4}$	$\frac{\sqrt{5}+1}{4}$	$\sqrt{5-2\sqrt{5}}$	$\frac{\sqrt{25+10\sqrt{5}}}{5}$	$\sqrt{5}-1$	$\frac{4}{\sqrt{10-2\sqrt{5}}}$
45°	$\frac{1}{4}\pi$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$	1	1	$\sqrt{2}$	$\sqrt{2}$
54°	$\frac{3}{10}\pi$	$\frac{\sqrt{5}+1}{4}$	$\frac{\sqrt{10-2\sqrt{5}}}{4}$	$\frac{\sqrt{25+10\sqrt{5}}}{5}$	$\sqrt{5-2\sqrt{5}}$	$\frac{4}{\sqrt{10-2\sqrt{5}}}$	$\sqrt{5}-1$
60°	$\frac{1}{3}\pi$	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$\sqrt{3}$	$\frac{\sqrt{3}}{3}$	2	$\frac{2\sqrt{3}}{3}$
67°30'	$\frac{3}{8}\pi$	$\frac{\sqrt{2}+\sqrt{2}}{2}$	$\frac{\sqrt{2}-\sqrt{2}}{2}$	$\sqrt{2}+1$	$\sqrt{2}-1$	$\frac{2}{\sqrt{2}-\sqrt{2}}$	$\frac{2}{\sqrt{2}+\sqrt{2}}$
72°	$\frac{2}{5}\pi$	$\frac{\sqrt{10+2\sqrt{5}}}{4}$	$\frac{\sqrt{5}-1}{4}$	$\sqrt{5+2\sqrt{5}}$	$\frac{\sqrt{25-10\sqrt{5}}}{5}$	$\sqrt{5}+1$	$\frac{4}{\sqrt{10+2\sqrt{5}}}$
75°	$\frac{5}{12}\pi$	$\frac{\sqrt{6}+\sqrt{2}}{4}$	$\frac{\sqrt{6}-\sqrt{2}}{4}$	$2+\sqrt{5}$	$2-\sqrt{5}$	$\sqrt{6}+\sqrt{2}$	$\sqrt{6}-\sqrt{2}$
90°	$\frac{1}{2}\pi$	1	0	$\pm\infty$	0	$\pm\infty$	1
99°	$\frac{11}{20}\pi$	$\frac{\sqrt{3+\sqrt{5}}+\sqrt{5}-\sqrt{5}}{4}$	$\frac{\sqrt{5}-\sqrt{5}-\sqrt{3}+\sqrt{5}}{4}$	$\frac{1-\sqrt{5}}{4-\sqrt{10+2\sqrt{5}}}$	$\frac{\sqrt{10+2\sqrt{5}}-4}{\sqrt{5}-1}$	$\frac{4}{\sqrt{5}-\sqrt{5}-\sqrt{3}+\sqrt{5}}$	$\frac{4}{\sqrt{3+\sqrt{5}}+\sqrt{5}-\sqrt{5}}$
105°	$\frac{7}{12}\pi$	$\frac{\sqrt{6}+\sqrt{2}}{4}$	$\frac{\sqrt{2}-\sqrt{6}}{4}$	$-2-\sqrt{5}$	$-2+\sqrt{5}$	$-\sqrt{6}-\sqrt{2}$	$\sqrt{6}-\sqrt{2}$
108°	$\frac{3}{5}\pi$	$\frac{\sqrt{10+2\sqrt{5}}}{4}$	$\frac{1-\sqrt{5}}{4}$	$-\sqrt{5+2\sqrt{5}}$	$-\frac{\sqrt{25-10\sqrt{5}}}{5}$	$-1-\sqrt{5}$	$\frac{4}{\sqrt{10+2\sqrt{5}}}$
111°30'	$\frac{5}{8}\pi$	$\frac{\sqrt{2}+\sqrt{2}}{2}$	$-\frac{\sqrt{2}-\sqrt{2}}{2}$	$-\sqrt{2}-1$	$1-\sqrt{2}$	$\frac{-2}{\sqrt{2}-\sqrt{2}}$	$\frac{2}{\sqrt{2}+\sqrt{2}}$
120°	$\frac{2}{3}\pi$	$\frac{\sqrt{3}}{2}$	$-\frac{1}{2}$	$-\sqrt{3}$	$-\frac{\sqrt{3}}{3}$	-2	$\frac{2\sqrt{3}}{3}$
126°	$\frac{7}{10}\pi$	$\frac{\sqrt{5}+1}{4}$	$-\frac{\sqrt{10-2\sqrt{5}}}{4}$	$-\frac{\sqrt{25+10\sqrt{5}}}{5}$	$-\sqrt{5-2\sqrt{5}}$	$-\frac{4}{\sqrt{10-2\sqrt{5}}}$	$\sqrt{5}-1$
135°	$\frac{3}{4}\pi$	$\frac{\sqrt{2}}{2}$	$-\frac{\sqrt{2}}{2}$	-1	-1	$-\sqrt{2}$	$\sqrt{2}$
144°	$\frac{4}{5}\pi$	$\sqrt{\frac{10-2\sqrt{5}}{4}}$	$\frac{-\sqrt{5}-1}{4}$	$-\sqrt{5-2\sqrt{5}}$	$-\frac{\sqrt{25+10\sqrt{5}}}{5}$	$1-\sqrt{5}$	$\frac{4}{\sqrt{10-2\sqrt{5}}}$
150°	$\frac{5}{6}\pi$	$\frac{1}{2}$	$-\frac{\sqrt{3}}{2}$	$-\frac{\sqrt{3}}{3}$	$-\sqrt{3}$	$-\frac{2\sqrt{3}}{3}$	2
157°30'	$\frac{7}{8}\pi$	$\frac{\sqrt{2}-\sqrt{2}}{2}$	$-\frac{\sqrt{2}+\sqrt{2}}{2}$	$1-\sqrt{2}$	$-1-\sqrt{2}$	$-\frac{2}{\sqrt{2}+\sqrt{2}}$	$\frac{2}{\sqrt{2}-\sqrt{2}}$
162°	$\frac{9}{10}\pi$	$\frac{\sqrt{5}-1}{4}$	$-\frac{\sqrt{10+2\sqrt{5}}}{4}$	$-\frac{\sqrt{25-10\sqrt{5}}}{5}$	$-\sqrt{5+2\sqrt{5}}$	$-\frac{4}{\sqrt{10+2\sqrt{5}}}$	$\sqrt{5}+1$
165°	$\frac{11}{12}\pi$	$\frac{\sqrt{6}-\sqrt{2}}{4}$	$\frac{-\sqrt{6}-\sqrt{2}}{4}$	$-2+\sqrt{5}$	$-2-\sqrt{5}$	$-\sqrt{6}+\sqrt{2}$	$\sqrt{6}+\sqrt{2}$
180°	π	0	-1	0	$\mp\infty$	-1	$\pm\infty$