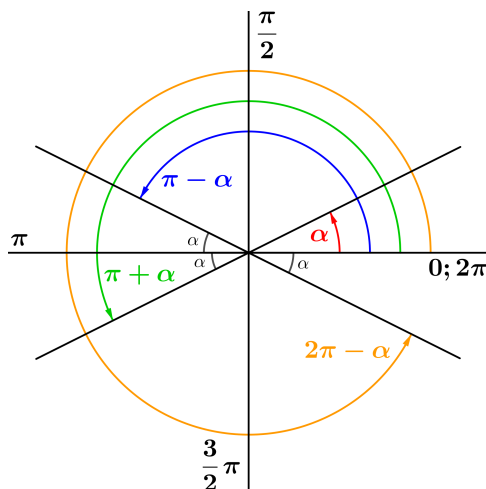


URČOVÁNÍ HODNOT GONIOMETRICKÝCH FUNKCÍ

Jednotková kružnice:



Znaménko goniometrických funkcí:

$\sin x$	
$\begin{array}{c c} + & + \\ \hline - & - \end{array}$	

$\cos x$	
$\begin{array}{c c} - & + \\ \hline - & + \end{array}$	

$\operatorname{tg} x$	
$\begin{array}{c c} - & + \\ \hline + & - \end{array}$	

$\operatorname{cotg} x$	
$\begin{array}{c c} - & + \\ \hline + & - \end{array}$	

Pro $\alpha \in (0, \frac{\pi}{2})$ platí:

$\sin(\pi - \alpha) = \sin \alpha$	$\cos(\pi - \alpha) = -\cos \alpha$
$\sin(\pi + \alpha) = -\sin \alpha$	$\cos(\pi + \alpha) = -\cos \alpha$
$\sin(2\pi - \alpha) = -\sin \alpha$	$\cos(2\pi - \alpha) = \cos \alpha$
$\operatorname{tg}(\pi - \alpha) = -\operatorname{tg} \alpha$	$\operatorname{cotg}(\pi - \alpha) = -\operatorname{cotg} \alpha$
$\operatorname{tg}(\pi + \alpha) = \operatorname{tg} \alpha$	$\operatorname{cotg}(\pi + \alpha) = \operatorname{cotg} \alpha$
$\operatorname{tg}(2\pi - \alpha) = -\operatorname{tg} \alpha$	$\operatorname{cotg}(2\pi - \alpha) = -\operatorname{cotg} \alpha$

Tabulka významných hodnot:

x	0	$\frac{\pi}{6}$	$\frac{\pi}{4}$	$\frac{\pi}{3}$	$\frac{\pi}{2}$	π	$\frac{3}{2}\pi$
$\sin x$	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1	0	-1
$\cos x$	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0	-1	0
$\operatorname{tg} x$	0	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$	/	0	/
$\operatorname{cotg} x$	/	$\sqrt{3}$	1	$\frac{\sqrt{3}}{3}$	0	/	0