TABULKA DŮLEŽITÝCH HODNOT

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

$$\operatorname{tg} = \frac{\sin}{\cos}$$

$$\operatorname{cotg} = \frac{\cos}{\sin}$$

$$\operatorname{tg} = \frac{1}{\operatorname{cotg}}$$

$$\operatorname{tg} x \cdot \operatorname{cotg} x = 1 \Rightarrow \operatorname{cotg} x = \frac{1}{\operatorname{tg} x}$$

$$\sin^2 x + \cos^2 x = 1$$

$\forall x \in (0; \frac{\pi}{2})$:

$$\sin x = \cos\left(\frac{\pi}{2} - x\right)$$

$$\cos x = \sin\left(\frac{\pi}{2} - x\right)$$

$$\sin x = \sin(\pi - x)$$

$$\sin x = -\sin(\pi + x)$$

$$\sin x = -\sin(2\pi - x)$$

$$\cos x = -\cos(\pi - x)$$

$$\cos x = -\cos(\pi + x)$$

$$\cos x = \cos(2\pi - x)$$

$$\operatorname{tg} x = -\operatorname{tg}(\pi - x)$$

$$\operatorname{cotg} x = -\operatorname{cotg}(\pi - x)$$

$$\sin(x+y) = \sin x \cos y + \cos x \sin y$$

$$\sin(x-y) = \sin x \cos y - \cos x \sin y$$

$$\cos(x+y) = \cos x \cos y - \sin x \sin y$$

$$\cos(x-y) = \cos x \cos y + \sin x \sin y$$

$$\operatorname{tg}(x+y) = \frac{\operatorname{tg} x + \operatorname{tg} y}{1 - \operatorname{tg} x \cdot \operatorname{tg} y}$$

$$\operatorname{tg}(x-y) = \frac{\operatorname{tg} x - \operatorname{tg} y}{1 + \operatorname{tg} x \cdot \operatorname{tg} y}$$

$$\sin 2x = 2 \sin x \cos x$$

$$\cos 2x = \cos^2 x - \sin^2 x$$

$$\operatorname{tg} 2x = \frac{2 \operatorname{tg} x}{1 - \operatorname{tg}^2 x}$$

$$\sin\left(\frac{x}{2}\right) = \pm\sqrt{\frac{1 - \cos x}{2}}$$

$$\cos\left(\frac{x}{2}\right) = \pm\sqrt{\frac{1 + \cos x}{2}}$$

$$\sin x \pm \sin y = 2 \cdot \sin\left(\frac{x \pm y}{2}\right) \cdot \cos\left(\frac{x \pm y}{2}\right)$$

$$\cos x + \cos y = 2 \cdot \cos\left(\frac{x+y}{2}\right) \cdot \cos\left(\frac{x-y}{2}\right)$$

$$\cos x - \cos y = -2 \cdot \sin\left(\frac{x+y}{2}\right) \cdot \sin\left(\frac{x-y}{2}\right)$$

Stupně na radiány:

$$\cdot \frac{\pi}{180}$$

radiány na stupně:

$$\cdot \frac{180}{\pi}$$