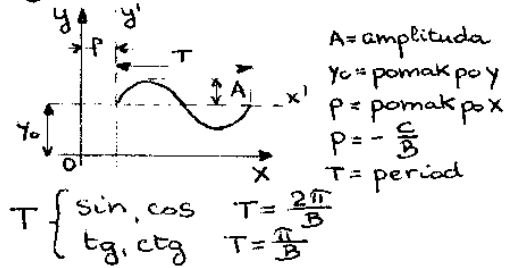


TRIGONOMETRIJA

		I KVADRANT					II KVADRANT			III KVADRANT			IV KVADRANT					
α	RADIJAN	0	$\frac{\pi}{6}$	$\frac{\pi}{4}$	$\frac{\pi}{3}$	$\frac{\pi}{2}$	$\frac{2\pi}{3}$	$\frac{3\pi}{4}$	$\frac{5\pi}{6}$	π	$\frac{7\pi}{6}$	$\frac{5\pi}{4}$	$\frac{4\pi}{3}$	$\frac{3\pi}{2}$	$\frac{5\pi}{3}$	$\frac{7\pi}{4}$	$\frac{11\pi}{6}$	2π
	STUPANJ	0°	30°	45°	60°	90°	120°	135°	150°	180°	210°	225°	240°	270°	300°	315°	330°	360°
FUNKCIJE	Sind	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0	$-\frac{1}{2}$	$-\frac{\sqrt{2}}{2}$	$-\frac{\sqrt{3}}{2}$	-1	$-\frac{\sqrt{3}}{2}$	$-\frac{\sqrt{2}}{2}$	$-\frac{1}{2}$	0
	cos α	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0	$-\frac{1}{2}$	$-\frac{\sqrt{2}}{2}$	$-\frac{\sqrt{3}}{2}$	-1	$-\frac{\sqrt{3}}{2}$	$-\frac{\sqrt{2}}{2}$	$-\frac{1}{2}$	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1
	tg α	0	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$	$\pm\infty$	$-\sqrt{3}$	-1	$-\frac{\sqrt{3}}{3}$	0	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$	$\pm\infty$	$-\sqrt{3}$	-1	$-\frac{\sqrt{3}}{3}$	0
	ctg α	$\pm\infty$	$\sqrt{3}$	1	$\frac{\sqrt{3}}{3}$	0	$-\frac{\sqrt{3}}{3}$	-1	$-\sqrt{3}$	$\pm\infty$	$\sqrt{3}$	1	$\frac{\sqrt{3}}{3}$	0	$-\frac{\sqrt{3}}{3}$	-1	$-\sqrt{3}$	$\pm\infty$
	sec α	1	$\frac{2\sqrt{3}}{3}$	$\sqrt{2}$	2	$\pm\infty$	-2	$-\sqrt{2}$	$-\frac{2\sqrt{3}}{3}$	-1	$-\frac{2\sqrt{3}}{3}$	$-\sqrt{2}$	-2	$\pm\infty$	2	$\sqrt{2}$	$\frac{2\sqrt{3}}{3}$	1
	cosec α	$\pm\infty$	2	$\sqrt{2}$	$\frac{2\sqrt{3}}{3}$	1	$\frac{2\sqrt{3}}{3}$	$\sqrt{2}$	2	$\pm\infty$	-2	$-\sqrt{2}$	$-\frac{2\sqrt{3}}{3}$	-1	$-\frac{2\sqrt{3}}{3}$	$-\sqrt{2}$	-2	∞

		ZADANO			
		Sind	cos α	tg α	ctg α
Sind			$\pm\sqrt{1-\cos^2\alpha}$	$\frac{\pm\text{tg}\alpha}{\sqrt{1+\text{tg}^2\alpha}}$	$\frac{1}{\pm\sqrt{1+\text{ctg}^2\alpha}}$
cos α		$\pm\sqrt{1-\sin^2\alpha}$		$\frac{1}{\pm\sqrt{1+\text{ctg}^2\alpha}}$	$\frac{\text{ctg}\alpha}{\pm\sqrt{1+\text{ctg}^2\alpha}}$
tg α		$\frac{\text{Sind}\alpha}{\pm\sqrt{1-\sin^2\alpha}}$	$\frac{\pm\sqrt{1-\cos^2\alpha}}{\cos\alpha}$		$\frac{1}{\text{ctg}\alpha}$
ctg α		$\frac{\pm\sqrt{1-\sin^2\alpha}}{\text{Sind}\alpha}$	$\frac{\cos\alpha}{\pm\sqrt{1-\cos^2\alpha}}$	$\frac{1}{\text{tg}\alpha}$	

$$y = A \sin(Bx + C) + D$$



$$\begin{aligned} \sin(k \cdot 360^\circ + \alpha) &= \sin(\pm\alpha) \\ \cos(k \cdot 360^\circ + \alpha) &= \cos(\pm\alpha) \\ \text{tg}(k \cdot 360^\circ + \alpha) &= \text{tg}(\pm\alpha) \\ \text{ctg}(k \cdot 360^\circ + \alpha) &= \text{ctg}(\pm\alpha) \end{aligned}$$

$$\begin{aligned} \sin(90^\circ + \alpha) &= \cos\alpha \\ \cos(90^\circ + \alpha) &= -\sin\alpha \\ \text{tg}(90^\circ + \alpha) &= -\text{ctg}\alpha \\ \text{ctg}(90^\circ + \alpha) &= -\text{tg}\alpha \end{aligned}$$

$$\begin{aligned} \sin(180^\circ + \alpha) &= -\sin\alpha \\ \cos(180^\circ + \alpha) &= -\cos\alpha \\ \text{tg}(180^\circ + \alpha) &= \text{tg}\alpha \\ \text{ctg}(180^\circ + \alpha) &= \text{ctg}\alpha \end{aligned}$$

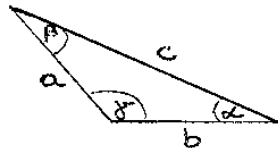
$$\begin{aligned} \sin(270^\circ + \alpha) &= -\cos\alpha \\ \cos(270^\circ + \alpha) &= \sin\alpha \\ \text{tg}(270^\circ + \alpha) &= -\text{ctg}\alpha \\ \text{ctg}(270^\circ + \alpha) &= \text{tg}\alpha \end{aligned}$$

$$\begin{aligned} \sin(-\alpha) &= -\sin\alpha \\ \cos(-\alpha) &= \cos\alpha \\ \text{tg}(-\alpha) &= -\text{tg}\alpha \\ \text{ctg}(-\alpha) &= -\text{ctg}\alpha \end{aligned}$$

$$\begin{aligned} \sin(90^\circ - \alpha) &= \cos\alpha \\ \cos(90^\circ - \alpha) &= \sin\alpha \\ \text{tg}(90^\circ - \alpha) &= \text{ctg}\alpha \\ \text{ctg}(90^\circ - \alpha) &= \text{tg}\alpha \end{aligned}$$

$$\begin{aligned} \sin(180^\circ - \alpha) &= \sin\alpha \\ \cos(180^\circ - \alpha) &= -\cos\alpha \\ \text{tg}(180^\circ - \alpha) &= -\text{tg}\alpha \\ \text{ctg}(180^\circ - \alpha) &= -\text{ctg}\alpha \end{aligned}$$

Sinusov poučak:



$$a : b : c = \sin\alpha : \sin\beta : \sin\gamma$$

Kosinusov poučak:

$$a^2 = b^2 + c^2 - 2bc \cos\alpha$$

$$\cos\alpha = \frac{b^2 + c^2 - a^2}{2bc}$$

$$b^2 = a^2 + c^2 - 2ac \cos\beta$$

$$\cos\beta = \frac{a^2 + c^2 - b^2}{2ac}$$

$$c^2 = a^2 + b^2 - 2ab \cos\gamma$$

$$\cos\gamma = \frac{a^2 + b^2 - c^2}{2ab}$$

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