

Pre Calc: Unit Circles For Common Trig. Values

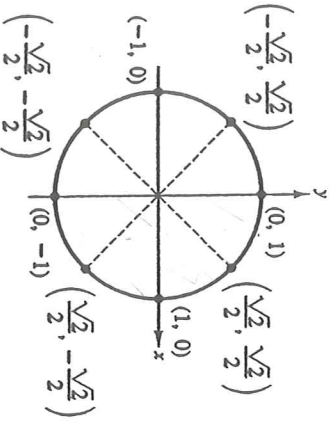
Name _____

Key

Date _____

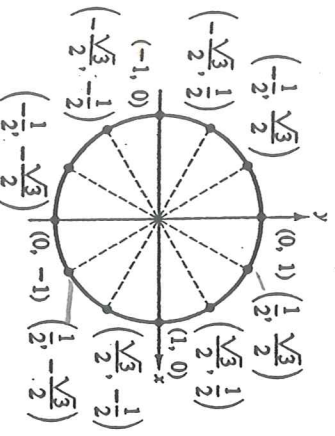
Period _____

45° Angles (exact values)



		Angles											
		rad.	0	$\pi/4$	$\pi/2$	$3\pi/4$	π	$5\pi/4$	$3\pi/2$	$7\pi/4$	2π		
Function	deg.		0°	45°	90°	135°	180°	225°	270°	315°	360°		
sin	(y)	0	$\frac{\sqrt{2}}{2}$	1	$\frac{\sqrt{2}}{2}$	0	$-\frac{\sqrt{2}}{2}$	-1	$-\frac{\sqrt{2}}{2}$	0	1		
cos	(x)	1	$\frac{\sqrt{2}}{2}$	0	0	$-\frac{\sqrt{2}}{2}$	-1	$-\frac{\sqrt{2}}{2}$	0	$\frac{\sqrt{2}}{2}$	1		
tan	(y/x)	0	1	und.	und.	-1	0	1	und.	-1	0		
csc	1/y	und.	und.	$\sqrt{2}$	1	$\sqrt{2}$	und.	und.	-1	$-\sqrt{2}$	und.		
sec	1/x	1	und.	und.	und.	-1	und.	-1	und.	$\sqrt{2}$	und.		
cot	x/y	und.	und.	1	0	-1	und.	1	0	-1	und.		

30° Angles (exact values)



		Angles												
		0	$\pi/6$	$\pi/3$	$\pi/2$	$2\pi/3$	$5\pi/6$	π	$7\pi/6$	$4\pi/3$	$3\pi/2$	$5\pi/3$	$11\pi/6$	2π
Function		0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°	330°	360°
sin	(y)	0	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	1	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	0	$-\frac{1}{2}$	$-\frac{\sqrt{3}}{2}$	-1	$-\frac{\sqrt{3}}{2}$	$-\frac{1}{2}$	0
cos	(x)	1	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	0	$-\frac{1}{2}$	$-\frac{\sqrt{3}}{2}$	-1	$-\frac{\sqrt{3}}{2}$	$-\frac{1}{2}$	0	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	1
tan	(y/x)	0	$\frac{\sqrt{3}}{3}$	$\frac{\sqrt{3}}{3}$	und.	und.	$-\frac{\sqrt{3}}{3}$	0	$-\frac{\sqrt{3}}{3}$	$-\frac{\sqrt{3}}{3}$	und.	und.	$-\frac{\sqrt{3}}{3}$	0
csc	1/y	und.	2	$\frac{2\sqrt{3}}{3}$	1	$\frac{2\sqrt{3}}{3}$	2	und.	-2	$-\frac{2\sqrt{3}}{3}$	und.	-1	$-\frac{2\sqrt{3}}{3}$	und.
sec	1/x	1	$\frac{2\sqrt{3}}{3}$	2	und.	und.	$-\frac{2\sqrt{3}}{3}$	-1	$-\frac{2\sqrt{3}}{3}$	-2	und.	2	$\frac{2\sqrt{3}}{3}$	1
cot	x/y	und.	$\sqrt{3}$	$\frac{\sqrt{3}}{3}$	0	$-\frac{\sqrt{3}}{3}$	$-\sqrt{3}$	und.	$\sqrt{3}$	$\frac{\sqrt{3}}{3}$	0	$-\frac{\sqrt{3}}{3}$	$-\sqrt{3}$	und.