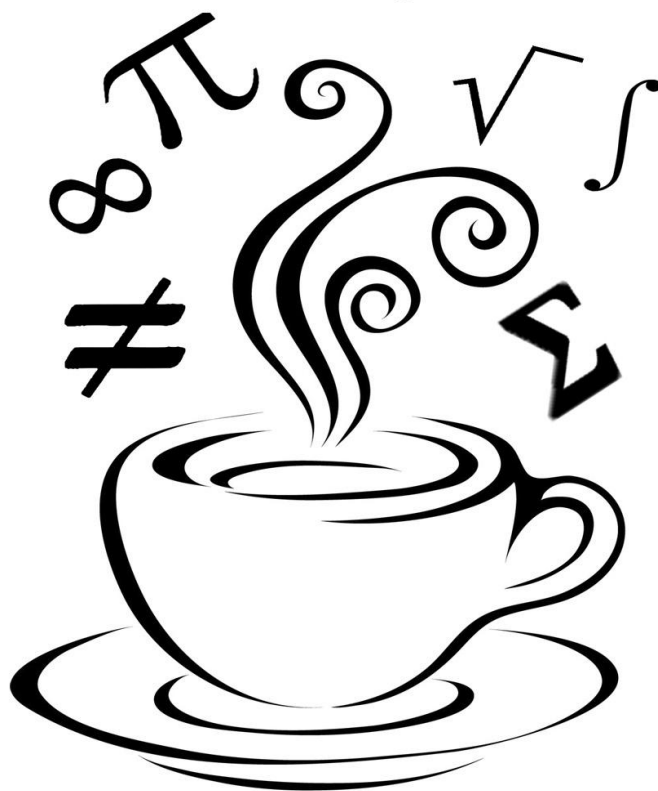


Find All 6 Trig Values Using the Unit Circle
Given a Value on the Circle (in Radians)

We're Bruyn Math



Shari Bruyn & Associates
Putting the Fun in the Fundamentals of Math

Functions - Find All 6 Values Using the Unit Circle

Why is it so hard to punish a vampire? Fill in the values below. Pick out the solutions from the bottom of the page to complete the riddle.

$$\Theta = \frac{5\pi}{6}$$

$$Y. \sin\Theta = \quad \quad \quad \text{csc}\Theta =$$

$$\cos\Theta = \quad \quad \quad A. \sec\Theta =$$

$$W. \tan\Theta = \quad \quad \quad \text{cot}\Theta =$$

$$\Theta = \frac{4\pi}{3}$$

$$O. \sin\Theta = \quad \quad \quad \text{csc}\Theta =$$

$$\cos\Theta = \quad \quad \quad \text{sec}\Theta =$$

$$\tan\Theta = \quad \quad \quad T. \text{cot}\Theta =$$

$$\Theta = \frac{5\pi}{4}$$

$$\sin\Theta = \quad \quad \quad V. \text{csc}\Theta =$$

$$D. \cos\Theta = \quad \quad \quad \text{sec}\Theta =$$

$$\tan\Theta = \quad \quad \quad \text{cot}\Theta =$$

$$\Theta = \frac{\pi}{3}$$

$$L. \sin\Theta = \quad \quad \quad \text{csc}\Theta =$$

$$\cos\Theta = \quad \quad \quad \text{sec}\Theta =$$

$$R. \tan\Theta = \quad \quad \quad \text{cot}\Theta =$$

$$\Theta = \frac{\pi}{2}$$

$$\sin\Theta = \quad \quad \quad S. \text{csc}\Theta =$$

$$B. \cos\Theta = \quad \quad \quad \text{sec}\Theta =$$

$$\tan\Theta = \quad \quad \quad \text{cot}\Theta =$$

$$\Theta = \pi$$

$$\sin\Theta = \quad \quad \quad \text{csc}\Theta =$$

$$\cos\Theta = \quad \quad \quad N. \text{sec}\Theta =$$

$$\tan\Theta = \quad \quad \quad F. \text{cot}\Theta =$$

$$\Theta = \frac{11\pi}{6}$$

$$E. \sin\Theta = \quad \quad \quad \text{csc}\Theta =$$

$$\cos\Theta = \quad \quad \quad \text{sec}\Theta =$$

$$\tan\Theta = \quad \quad \quad H. \text{cot}\Theta =$$

$$\Theta = \frac{\pi}{4}$$

$$\sin\Theta = \quad \quad \quad U. \text{csc}\Theta =$$

$$C. \cos\Theta = \quad \quad \quad \text{sec}\Theta =$$

$$\tan\Theta = \quad \quad \quad \text{cot}\Theta =$$

$$0 \quad -\frac{1}{2} \quad \frac{\sqrt{2}}{2} \quad \frac{-2\sqrt{3}}{3} \quad \sqrt{2} \quad 1 \quad -\frac{1}{2} \quad \frac{\sqrt{3}}{3} \quad -\sqrt{3} \quad -\frac{1}{2} \quad \frac{1}{2} \quad \frac{\sqrt{2}}{2} \quad \frac{-2\sqrt{3}}{3} \quad -1 \quad -1 \quad \frac{-\sqrt{3}}{2} \quad \frac{\sqrt{3}}{3}$$

$$\sqrt{3} \quad -\frac{1}{2} \quad \emptyset \quad \frac{\sqrt{3}}{2} \quad -\frac{1}{2} \quad \frac{\sqrt{2}}{2} \quad \frac{\sqrt{3}}{3} \quad \frac{-\sqrt{3}}{2} \quad -1 \quad \frac{-\sqrt{3}}{3} \quad -\sqrt{3} \quad \frac{-2\sqrt{3}}{3} \quad \frac{\sqrt{3}}{3} \quad \frac{\sqrt{3}}{3} \quad -\sqrt{3} \quad -\frac{1}{2} \quad \frac{1}{2}$$

$$-\sqrt{3} \quad \frac{-2\sqrt{3}}{3} \quad -\sqrt{2} \quad -\frac{1}{2} \quad \frac{-\sqrt{2}}{2} \quad \frac{-\sqrt{3}}{2} \quad -1 \quad -\frac{1}{2}$$

Functions - Find All 6 Values Using the Unit Circle

Why is it so hard to punish a vampire? Fill in the values below. Pick out the solutions from the second page to complete the riddle.

$$\Theta = \frac{5\pi}{6}$$

$$Y. \sin\Theta = \frac{1}{2}$$

$$\csc\Theta = 2$$

$$\cos\Theta = \frac{-\sqrt{3}}{2}$$

$$A. \sec\Theta = \frac{-2\sqrt{3}}{3}$$

$$W. \tan\Theta = \frac{-\sqrt{3}}{3}$$

$$\cot\Theta = -\sqrt{3}$$

$$\Theta = \frac{\pi}{2}$$

$$\sin\Theta = 1$$

$$B. \cos\Theta = 0$$

$$\tan\Theta = \emptyset$$

$$S. \csc\Theta = 1$$

$$\sec\Theta = \emptyset$$

$$\cot\Theta = 0$$

$$\Theta = \frac{4\pi}{3}$$

$$O. \sin\Theta = \frac{-\sqrt{3}}{2}$$

$$\csc\Theta = \frac{-2\sqrt{3}}{3}$$

$$\cos\Theta = -\frac{1}{2}$$

$$\sec\Theta = -2$$

$$\tan\Theta = \sqrt{3}$$

$$T. \cot\Theta = \frac{\sqrt{3}}{3}$$

$$\Theta = \pi$$

$$\sin\Theta = 0$$

$$\cos\Theta = -1$$

$$\tan\Theta = 0$$

$$\csc\Theta = \emptyset$$

$$N. \sec\Theta = -1$$

$$F. \cot\Theta = \emptyset$$

$$\Theta = \frac{5\pi}{4}$$

$$\sin\Theta = \frac{-\sqrt{2}}{2}$$

$$V. \csc\Theta = -\sqrt{2}$$

$$D. \cos\Theta = \frac{-\sqrt{2}}{2}$$

$$\sec\Theta = -\sqrt{2}$$

$$\tan\Theta = 1$$

$$\cot\Theta = 1$$

$$\Theta = \frac{11\pi}{6}$$

$$E. \sin\Theta = -\frac{1}{2}$$

$$\cos\Theta = \frac{\sqrt{3}}{2}$$

$$\tan\Theta = \frac{-\sqrt{3}}{3}$$

$$\csc\Theta = -2$$

$$\sec\Theta = \frac{2\sqrt{3}}{3}$$

$$H. \cot\Theta = -\sqrt{3}$$

$$\Theta = \frac{\pi}{3}$$

$$L. \sin\Theta = \frac{\sqrt{3}}{2}$$

$$\csc\Theta = \frac{2\sqrt{3}}{3}$$

$$\cos\Theta = \frac{1}{2}$$

$$\sec\Theta = 2$$

$$R. \tan\Theta = \sqrt{3}$$

$$\cot\Theta = \frac{\sqrt{3}}{3}$$

$$\Theta = \frac{\pi}{4}$$

$$\sin\Theta = \frac{\sqrt{2}}{2}$$

$$C. \cos\Theta = \frac{\sqrt{2}}{2}$$

$$\tan\Theta = 1$$

$$U. \csc\Theta = \sqrt{2}$$

$$\sec\Theta = \sqrt{2}$$

$$\cot\Theta = 1$$

B	E	C	A	U	S	E	T	H	E	Y	C	A	N	N	O	T
0	$-\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{-2\sqrt{3}}{3}$	$\sqrt{2}$	1	$-\frac{1}{2}$	$\frac{\sqrt{3}}{3}$	$-\sqrt{3}$	$-\frac{1}{2}$	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{-2\sqrt{3}}{3}$	-1	-1	$\frac{-\sqrt{3}}{2}$	$\frac{\sqrt{3}}{3}$
R	E	F	L	E	C	T	O	N	W	H	A	T	T	H	E	Y
$\sqrt{3}$	$-\frac{1}{2}$	\emptyset	$\frac{\sqrt{3}}{2}$	$-\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{3}$	$\frac{-\sqrt{3}}{2}$	-1	$\frac{-\sqrt{3}}{3}$	$-\sqrt{3}$	$\frac{-2\sqrt{3}}{3}$	$\frac{\sqrt{3}}{3}$	$\frac{\sqrt{3}}{3}$	$-\sqrt{3}$	$-\frac{1}{2}$	$\frac{1}{2}$
H	A	V	E	D	O	N	E									
$-\sqrt{3}$	$\frac{-2\sqrt{3}}{3}$	$-\sqrt{2}$	$-\frac{1}{2}$	$\frac{-\sqrt{2}}{2}$	$\frac{-\sqrt{3}}{2}$	-1	$-\frac{1}{2}$									

Because they cannot reflect on what they have done.