Daily Agenda

Learning Target: I can identify key values from the unit circle.

Homework

8.1 Day 3 Worksheet

Assessments

Unit Circle Mastery Quiz 2/7

The more that you read, the more things you will know.
The more that you learn, the more places you'll go.
- Dr. Suess

Nov 15-8:24 PM

$\sin 45° = \frac{\sqrt{2}}{2}$

$\sin \frac{7\pi}{6} = \frac{-1}{2}$

$\cos 60° = \frac{1}{2}$

$\tan \frac{3\pi}{4} = -1$

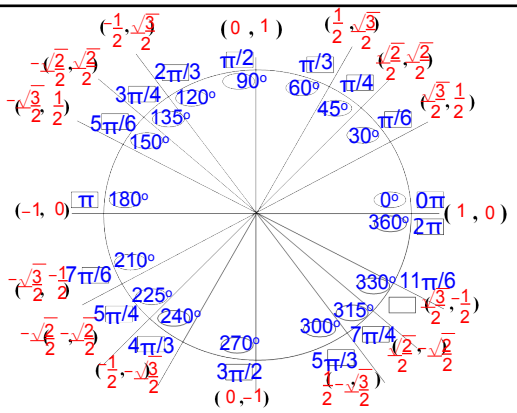
$\sin \frac{-\pi}{3} = \frac{-\sqrt{3}}{2}$

$\sin 150° = \frac{1}{2}$

$\cos -120° = \frac{-1}{2}$

$\tan \frac{\pi}{6} = \frac{\sqrt{3}}{3}$

Feb 6-11:07 AM



Mar 1-8:30 AM

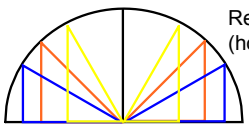
Think-Pair-Share

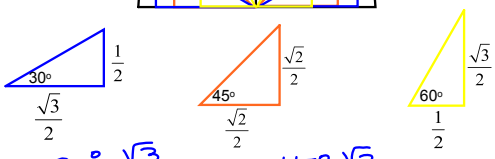
Identify three patterns you noticed in the unit circle.

Is there an easier way to remember the values?

Mar 3-10:46 AM

Reference angles help (how far from x-axis)





$\cos 30° = \frac{\sqrt{3}}{2}$

$\sin 30° = \frac{1}{2}$

$\tan 30° = \frac{\sqrt{3}}{3}$

$\cos 45° = \frac{\sqrt{2}}{2}$

$\sin 45° = \frac{\sqrt{2}}{2}$

$\tan 45° = 1$

$\cos 60° = \frac{1}{2}$

$\sin 60° = \frac{\sqrt{3}}{2}$

$\tan 60° = \sqrt{3}$

Mar 4-10:21 AM

Use the reference angles

Every location on unit circle has a reference angle of 30°,45°,60°

(−, +)	(+, +)
(−, −)	(+, −)

(x, y)

(cosθ, sinθ)

Mar 3-10:48 AM

Trig Ratios

$\cos\theta = x$

$\sin\theta = y$

$\tan\theta = \frac{\sin\theta}{\cos\theta} = \frac{y}{x}$

$\sec\theta = \frac{1}{\cos\theta} = \frac{1}{x}$

$\csc\theta = \frac{1}{\sin\theta} = \frac{1}{y}$

$\cot\theta = \frac{\cos\theta}{\sin\theta} = \frac{x}{y}$

$\cot = \frac{1}{\tan}$

Feb 24-8:52 AM

$\sin\frac{11\pi}{6}$

$-\frac{1}{2}$

$\pi/2$

π

$2\pi = \frac{12\pi}{6}$

$3\pi/2 = 9\pi/6$

$\cos 225^\circ$

$-\frac{\sqrt{2}}{2}$

Feb 6-11:23 AM

Evaluate the given expression. Leave the answer in simple radical form.

$\sin 300^\circ \csc 300^\circ$

$\sin 300^\circ \cdot \frac{1}{\sin 300^\circ} = 1$

$-\frac{\sqrt{3}}{2} \cdot \frac{-2}{\sqrt{3}} = 1$

Feb 24-8:52 AM

Evaluate the given expression. Leave the answer in simple radical form.

$\cos^2 45^\circ - \sin^2 45^\circ$

Feb 24-8:52 AM