

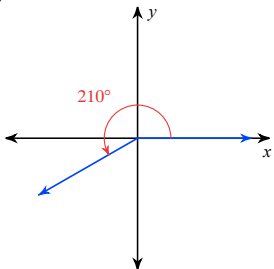
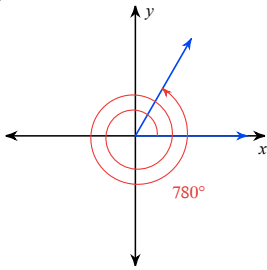
Name: _____ Class: _____ Date: _____

Honors Precalculus

Circuit: Trig Fxns, Reference Angles, Angles not on Unit Circle

Start with #1. Find the answer to #1 and label that problem #2. Repeat the process until the last answer takes you to the first box. If you get stuck and cannot work the circuit, you can still work the problems.

Directions for all problems, unless otherwise directed: Find the exact value of each trigonometric function by using the reference if needed. Calculator answers are rounded to four decimal places.

<p>Answer: _____</p> <p>#1. $\sin \theta$</p> 	<p>Answer: -1</p> <p># ____.</p> <p>$\cot\left(-\frac{\pi}{6}\right)$</p>
<p>Answer: 11.4301</p> <p># ____.</p> <p>Use a calculator to find $\csc 214^\circ$</p>	<p>Answer: 123.0001° and 303.0001°</p> <p># ____.</p> <p>Find the measure of θ, where $0^\circ < \theta < 360^\circ$.</p> <p>$\csc \theta = -1.00382$</p>
<p>Answer: $-\sqrt{3}$</p> <p># ____.</p> <p>$\cos\left(-\frac{35\pi}{6}\right)$</p>	<p>Answer: $-\frac{1}{2}$</p> <p># ____.</p> <p>$\cot \theta$</p> 

Answer: -2

____.

$\cot(585^\circ)$

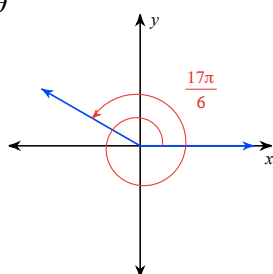
Answer: -1.7883

_____. Use a calculator to find $\sin(-902^\circ)$

Answer: undefined

____.

$\csc \theta$



Answer: 264.9999° and 275.0001°

_____. Find the measure of θ , where $0^\circ < \theta < 360^\circ$.

$\sec \theta = -2.23662$

Answer: $\frac{\sqrt{3}}{3}$

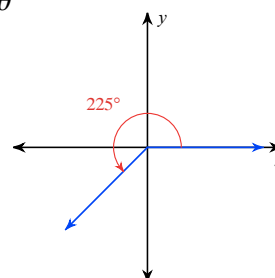
____.

$\sec(-945^\circ)$

Answer: 1

____.

$\cos \theta$



Answer: 0.0349

____ . Use a calculator to find $\cos\left(-\frac{\pi}{18}\right)$

Answer: 2

____ . Use a calculator to find $\cot 905^\circ$

Answer: 0.9848

____ . Use a calculator to find $\sec \frac{7\pi}{3}$

Answer: $-\sqrt{2}$

____ .

$\tan 60^\circ$

Answer: $\sqrt{3}$

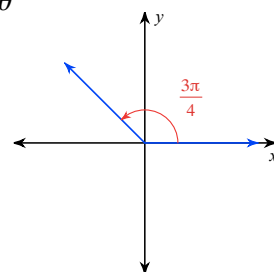
____ .

$\sin(390^\circ)$

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

____ .

$\tan \theta$



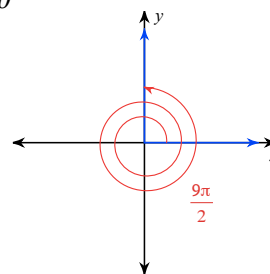
Answer: -0.3640

_____. Find the measure of θ , where $0^\circ < \theta < 360^\circ$.

$$\cos \theta = 0.01745$$

Answer: $\frac{\sqrt{3}}{2}$ $\sec \theta$

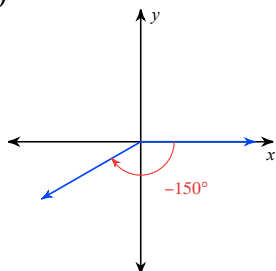
_____.



Answer: $\frac{1}{2}$

_____.

$\csc \theta$



Answer: 2.0000

_____. Use a calculator to find $\tan\left(-\frac{\pi}{9}\right)$

Answer: 89.0001° and 270.9999°

_____. Find the measure of θ , where $0^\circ < \theta < 360^\circ$.

$$\tan \theta = -1.53986$$

This box is empty, void, nondescript, absent of mathematics...