Warm - Up

Find x, over the interval of $[0, 2\pi)$.

1.) $\sec x = -\frac{2\sqrt{3}}{3}$

reciprocal of cosine (x)

$\boxed{x = \frac{5\pi}{6}, \frac{7\pi}{6}}$

2). $\tan x = \frac{\sqrt{3}}{3}$

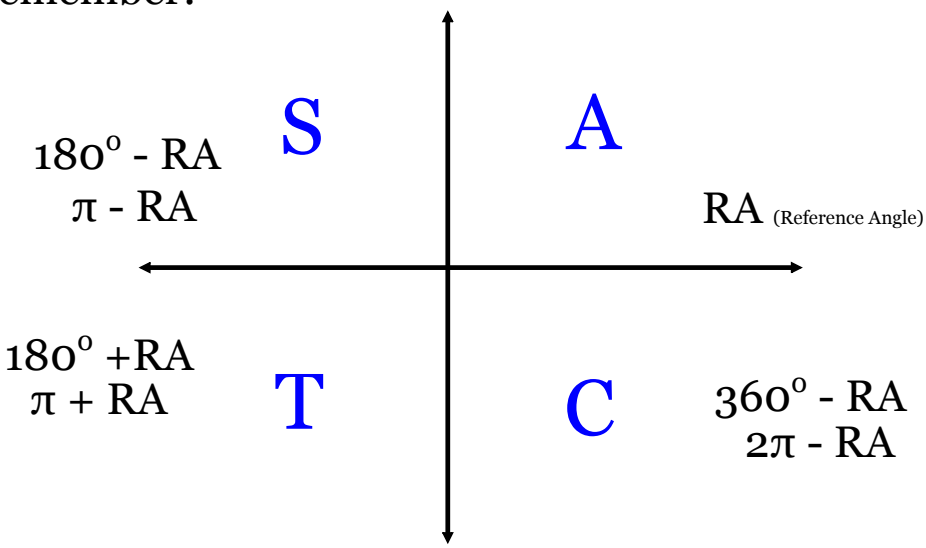
$\frac{y}{x}$

$\boxed{x = \frac{\pi}{6}, \frac{7\pi}{6}}$

Chapter 6

Intro to solving Trig equations.

Remember:



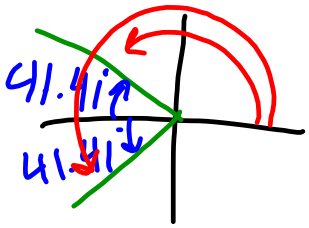
Find x, over the interval of [0°, 360°).

mode: degree

1.) $\cos x = -\frac{3}{4}$

* plug in +

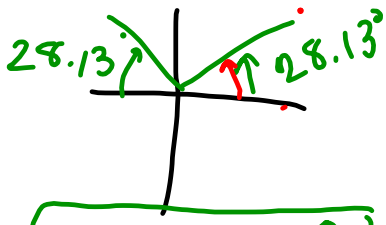
RA: 41.41°



$\boxed{x = 138.59° = 221.41°}$

2.) $\sin x = \frac{\sqrt{2}}{3}$

RA: 28.13°



$\boxed{x = 151.87° = 28.13°}$

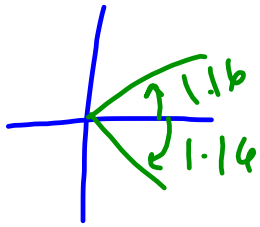
Find x, over the interval of $[0, 2\pi)$.

mode: radians

3.) $\sec x = \frac{5}{2}$

$\cos x = \frac{2}{5}$

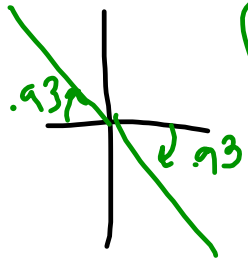
RA: 1.16



$\boxed{x = 1.16, 5.12}$

4.) $\tan x = -\frac{4}{3}$

RA: .93



$x = 2.21$
$= 5.35$

Find x, over the interval of $[0^\circ, 360^\circ)$.

5.) $\cot x = \pm\sqrt{5}$

6.) $\csc x = \frac{50}{11}$

Find x, over the interval of $[0, 2\pi)$.

7.) $\tan x = -\frac{9}{10}$

8.) $\cos x = -\frac{1}{4}$