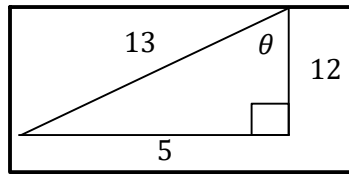


C12 - 4.3 - Find Ratio/Type in Calc HW



$$\sin\theta =$$

$$\csc\theta =$$

$$\cos\theta =$$

$$\sec\theta =$$

$$\tan\theta =$$

$$\cot\theta =$$

Type in Calculator (Degrees or Radians)

$$\sin 14^\circ =$$

$$\csc 25^\circ =$$

$$\sec 105^\circ =$$

$$\cot 150^\circ =$$

$$\cos 274^\circ =$$

$$\sin 60^\circ =$$

$$\tan(-240^\circ) =$$

$$\sin 1.7 =$$

$$\csc 5.9 =$$

$$\sec\left(\frac{2}{7}\right) =$$

$$\cot 0.6 =$$

$$\cos\frac{\pi}{6} =$$

$$\tan(3\pi) =$$

$$\cos 2\pi =$$

Find θ in Degrees

$$\sin\theta = \frac{3}{8}$$

$$\sec\theta = \frac{7}{3}$$

Find θ in Radians

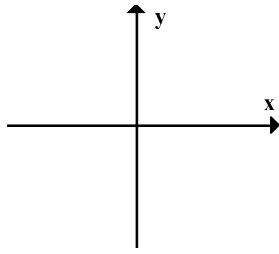
$$\cos\theta = 0.9$$

$$\cot\theta = 5$$

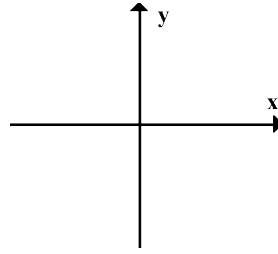
C12 - 4.3 - ASTC HW

Draw 2 triangles in the quadrants for the following statements

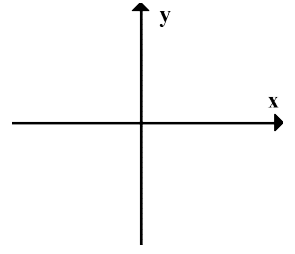
$$\cos \theta > 0$$



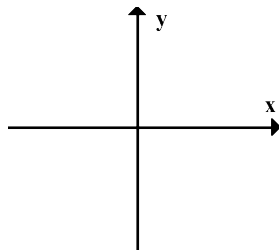
$$\tan \theta > 0$$



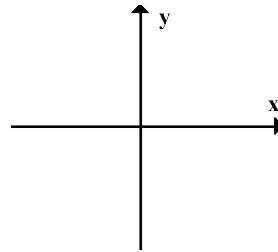
$$\sin \theta > 0$$



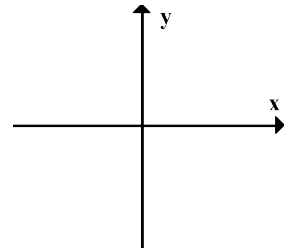
$$\cos \theta < 0$$



$$\tan \theta < 0$$

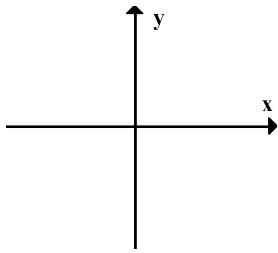


$$\sin \theta < 0$$

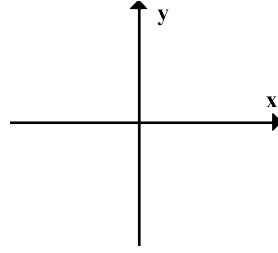


Draw a triangle in the quadrant for following statements

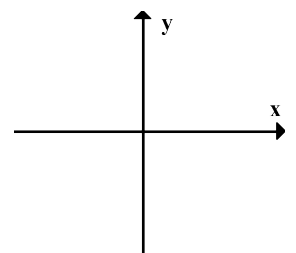
$$\cos \theta > 0 \text{ and } \sin \theta < 0$$



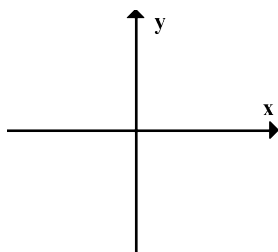
$$\cos \theta < 0 \text{ and } \tan \theta > 0$$



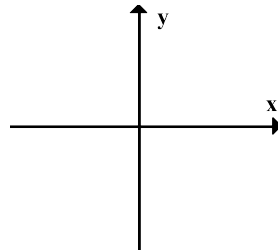
$$\tan \theta > 0 \text{ and } \sin \theta > 0$$



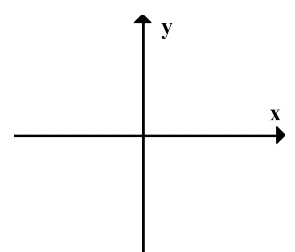
$$\cos \theta < 0 \text{ and } \sin \theta < 0$$



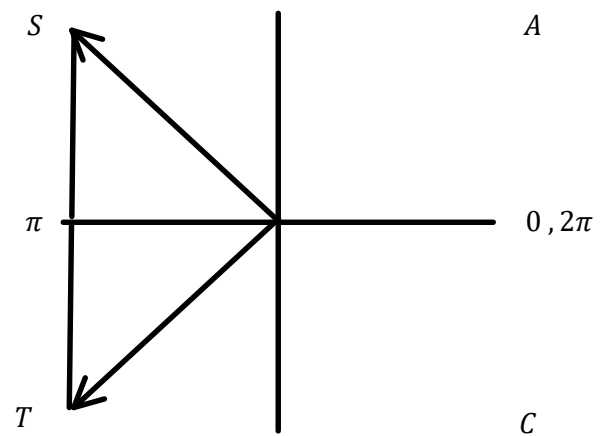
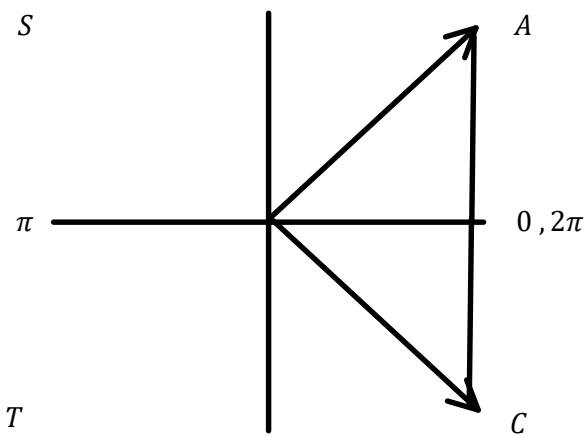
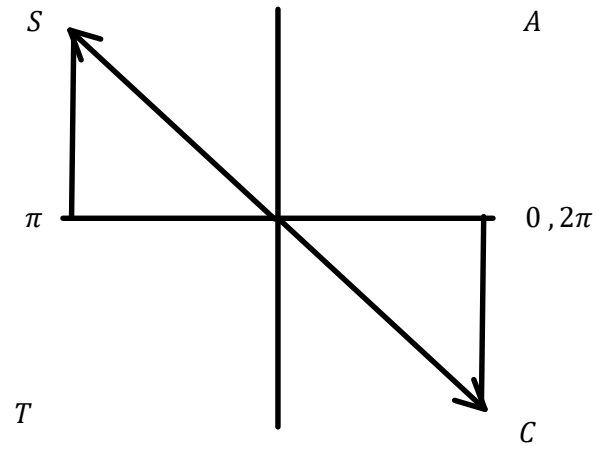
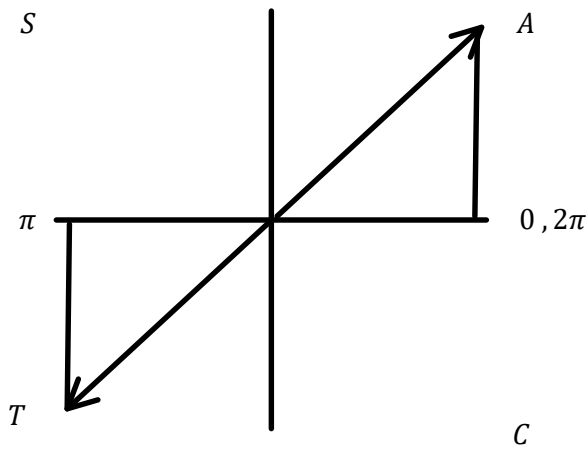
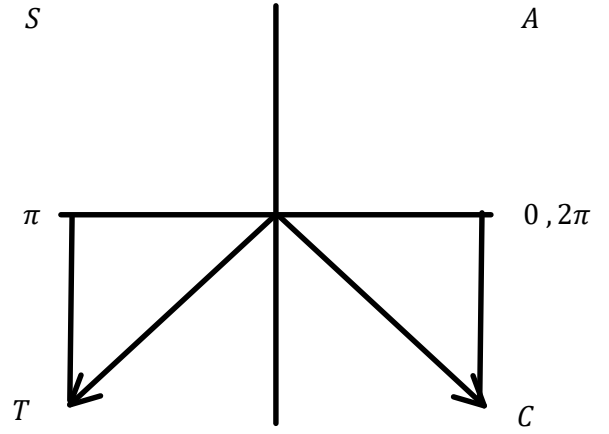
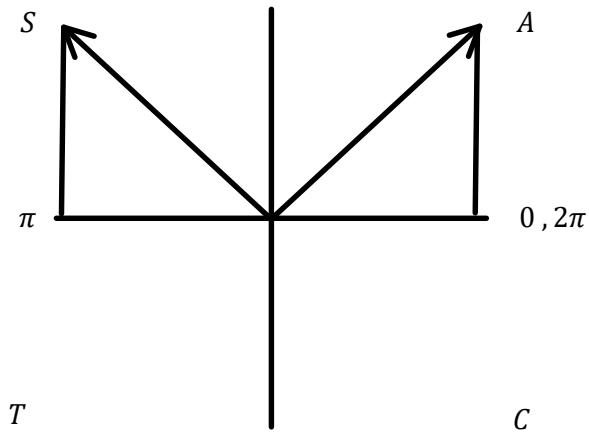
$$\cos \theta < 0 \text{ and } \tan \theta < 0$$



$$\tan \theta < 0 \text{ and } \sin \theta > 0$$



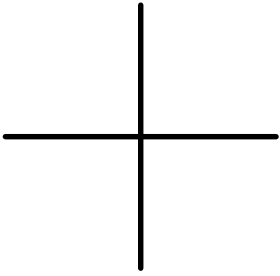
C12 - 4.3 - Draw θ_{stp} $0 \leq \theta < 2\pi$ HMK



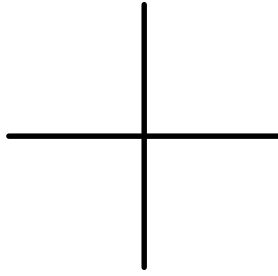
C12 - 4.3 - Solve $\sin\theta, \cos\theta, \tan\theta = ?$ HMK

Solve

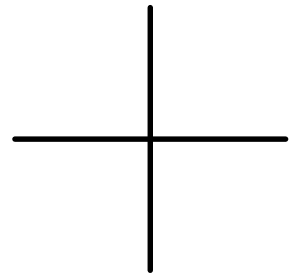
$$\sin\frac{\pi}{3} =$$



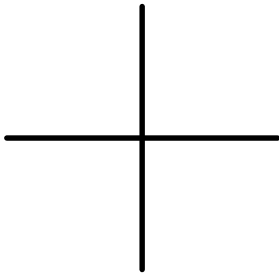
$$\tan\frac{5\pi}{4} =$$



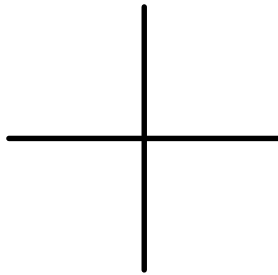
$$\sin\frac{11\pi}{6} =$$



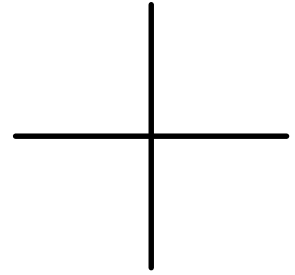
$$\sin\frac{4\pi}{3} =$$



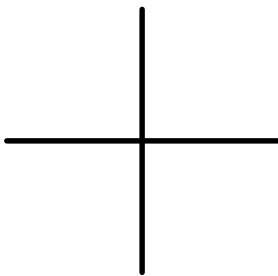
$$\cos\frac{\pi}{6} =$$



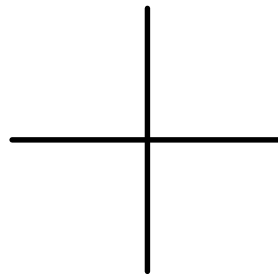
$$\tan\frac{\pi}{4} =$$



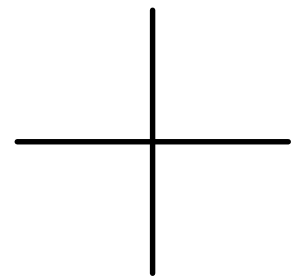
$$\tan\frac{7\pi}{4} =$$



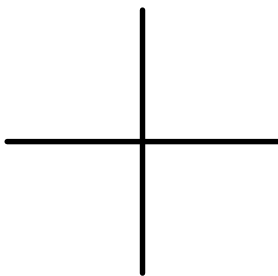
$$\sin\frac{5\pi}{6} =$$



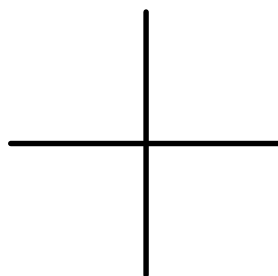
$$\cos\frac{3\pi}{4} =$$



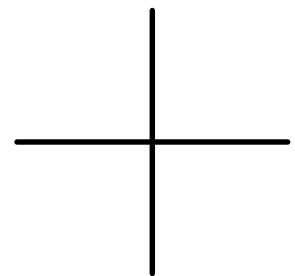
$$\sin\frac{5\pi}{3} =$$



$$\tan\frac{7\pi}{6} =$$



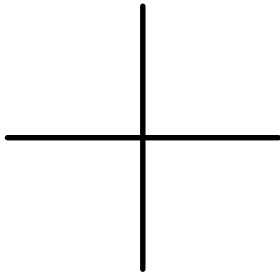
$$\sin\frac{2\pi}{3} =$$



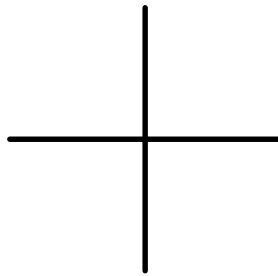
C12 - 4.3 - Solve $\sin x = \frac{1}{2}$ HW

Solve for $x, 0 \leq x < 2\pi$, answer should say $x =$

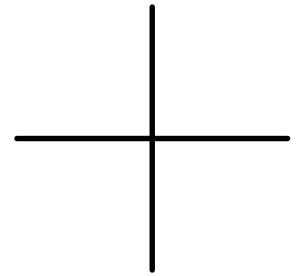
$$\sin x = \frac{1}{2}$$



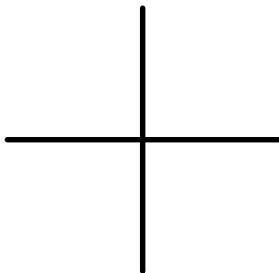
$$\cos x = -\frac{1}{\sqrt{2}}$$



$$\tan x = -1$$

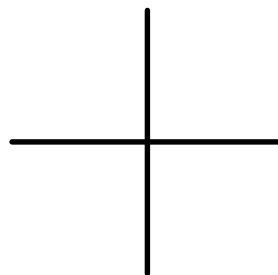


$$\sin x = \frac{\sqrt{3}}{2}$$

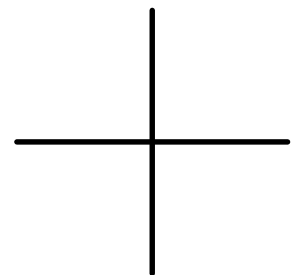


*rationalize

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



$$\sin x = -\frac{1}{2}$$



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

$$\sin x = -\frac{1}{\sqrt{2}}$$

$$\tan x = -\frac{1}{\sqrt{3}}$$

$$\cos x = -2$$

$$\tan x = \sqrt{3} \quad \tan x = \frac{1}{\sqrt{3}}$$

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

$$\tan x = 1$$

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

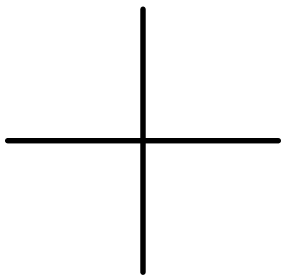
$$\tan x = -\sqrt{3}$$

$$\sin x = \frac{1}{\sqrt{2}} \quad \cos x = \frac{\sqrt{3}}{2}$$

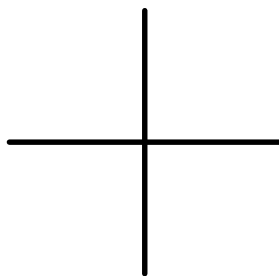
C12 - 4.3 - $\sin\theta = 0.8$ HW

Solve for x , $0 \leq x < 2\pi$, answer should say $x =$

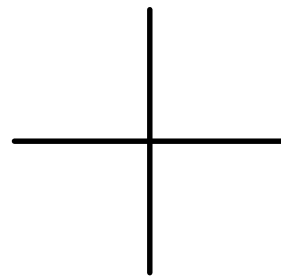
$$\tan x = -2$$



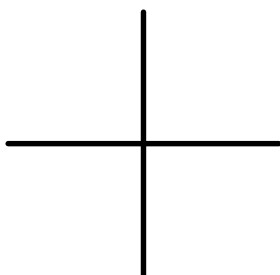
$$\sin x = 0.6$$



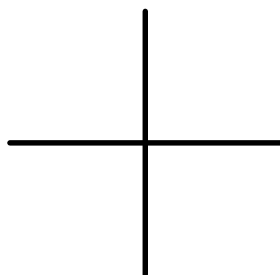
$$\cos x = \frac{1}{4}$$



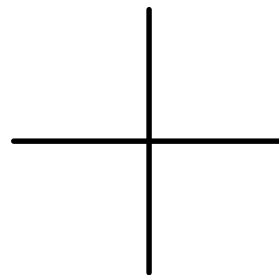
$$\sin x = -0.4$$



$$\tan x = \frac{1}{5}$$



$$\cos x = 2$$



$$\sin x = -0.1$$

$$\tan x = \frac{4}{5}$$

$$\sin x = -0.8$$

$$\cos x = -\frac{1}{5}$$

$$\tan x = -0.707$$

$$\sin x = \frac{1}{3}$$

$$\cos x = -0.5$$

$$\cos x = 0.75$$

$$\tan x = -0.866$$

$$\cos x = -0.65$$

$$\sin x = -\frac{2}{3}$$

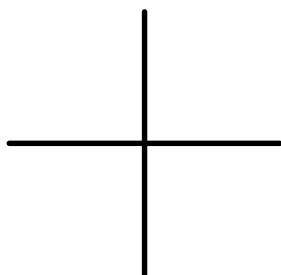
$$\tan x = 0.35$$

C12 - 4.3 - Point Trig Ratio HW

SOH CAH TOA

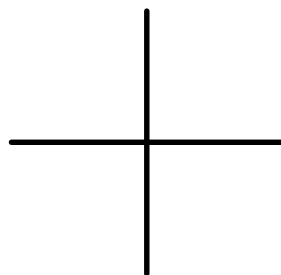
Find all 6 trig functions for the following points. And Find the Reference Angle and Angle in Standard Position.

(4,3)



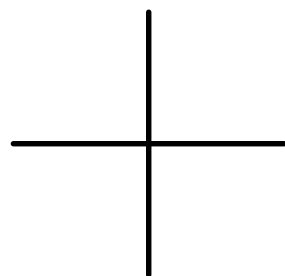
$\theta_r =$	$\sin x =$	$\csc x =$
$\theta_{stp} =$	$\cos x =$	$\sec x =$
	$\tan x =$	$\cot x =$

(-3,4)



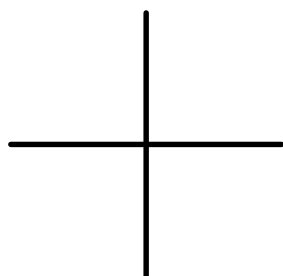
$\theta_r =$	$\sin x =$	$\csc x =$
$\theta_{stp} =$	$\cos x =$	$\sec x =$
	$\tan x =$	$\cot x =$

(2,3)



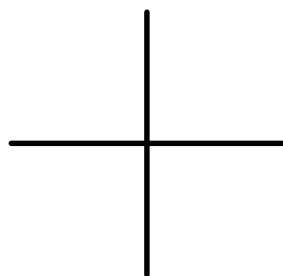
$\theta_r =$	$\sin x =$	$\csc x =$
$\theta_{stp} =$	$\cos x =$	$\sec x =$
	$\tan x =$	$\cot x =$

(5,-6)



$\theta_r =$	$\sin x =$	$\csc x =$
$\theta_{stp} =$	$\cos x =$	$\sec x =$
	$\tan x =$	$\cot x =$

(-5,12)

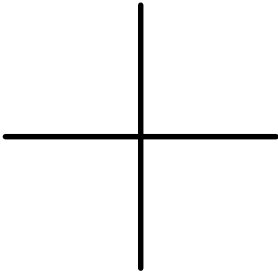


$\theta_r =$	$\sin x =$	$\csc x =$
$\theta_{stp} =$	$\cos x =$	$\sec x =$
	$\tan x =$	$\cot x =$

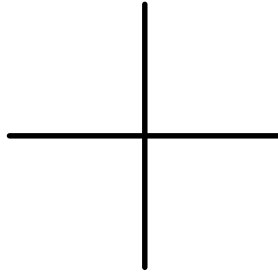
C12 - 4.3 - Solve $\csc\theta, \sec\theta, \cot\theta = ?$ HMK

Solve

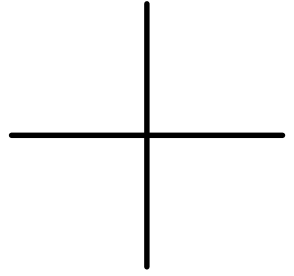
$$\cot \frac{\pi}{3} =$$



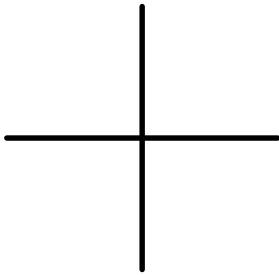
$$\sec \frac{5\pi}{4} =$$



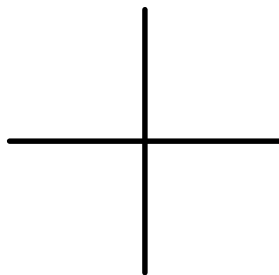
$$\sec \frac{11\pi}{6} =$$



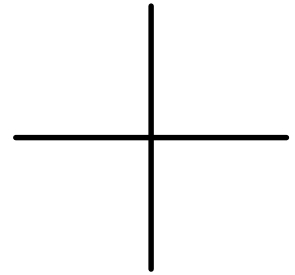
$$\sec \frac{4\pi}{3} =$$



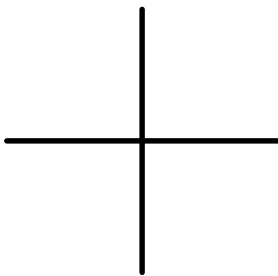
$$\csc \frac{\pi}{6} =$$



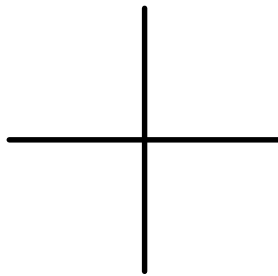
$$\cot \frac{5\pi}{6} =$$



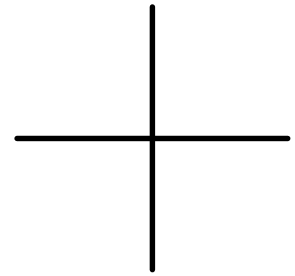
$$\csc \frac{7\pi}{4} =$$



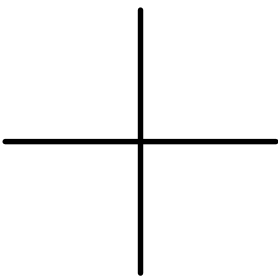
$$\cot \frac{\pi}{4} =$$



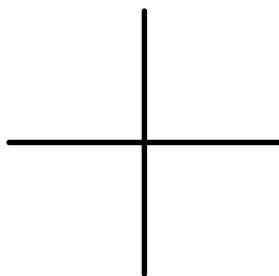
$$\sec \frac{3\pi}{4} =$$



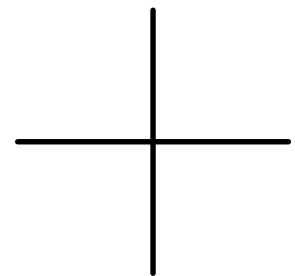
$$\sec \frac{5\pi}{3} =$$



$$\csc \frac{7\pi}{6} =$$



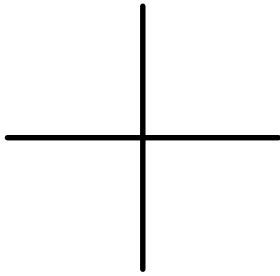
$$\cot \frac{2\pi}{3} =$$



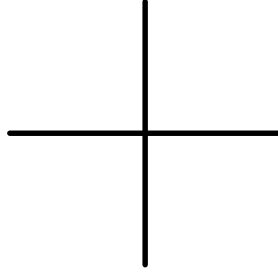
C12 - 4.3 - Solve $\csc x = 2$ HW

Solve for x , $0 \leq x < 2\pi$, answer should say $x =$

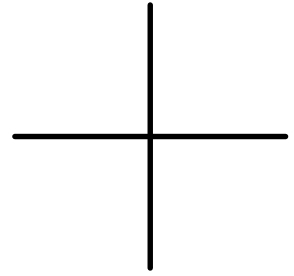
$$\sec x = 2$$



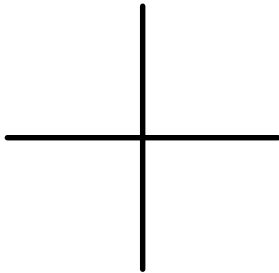
$$\csc x = -\frac{1}{\sqrt{2}}$$



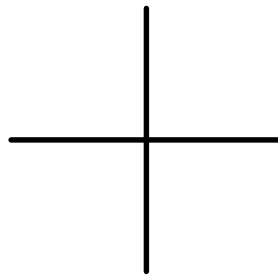
$$\cot x = -1$$



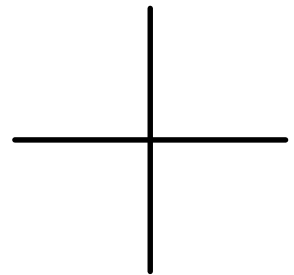
$$\csc x = \frac{\sqrt{3}}{2}$$



$$\cot x = \sqrt{3}$$



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



$$\csc x = 2$$

$$\sec x = -2$$

$$\cot x = -\frac{1}{\sqrt{3}}$$

$$\csc x = -2$$

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

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

$$\cot x = 1$$

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

$$\sec x = \frac{1}{\sqrt{2}}$$

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