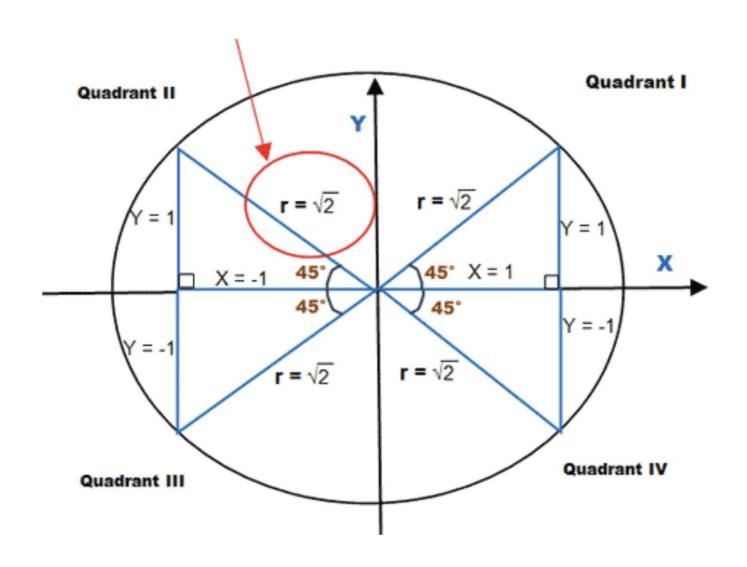
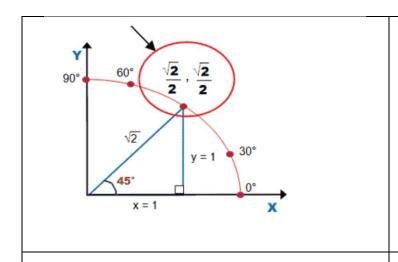
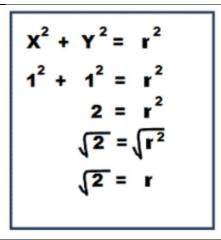


commonly encountered angles				
0	Radiene	Sin 0	Goe 0	Tan 9
0°	0	0	1	0
30°	$\frac{\pi}{6}$	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	<u>√3</u>
45°	$\frac{\pi}{4}$	$\frac{\frac{1}{2}}{\frac{\sqrt{2}}{2}}$ $\frac{\sqrt{3}}{2}$	$\frac{\sqrt{3}}{2}$ $\frac{\sqrt{2}}{2}$ $\frac{1}{2}$	1
60°	$\frac{\pi}{3}$	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	√3
90°	$\frac{\pi}{2}$	1	o	_
18 0 °	π	0	-1	0
270°	$\frac{3\pi}{2}$	-1	0	-

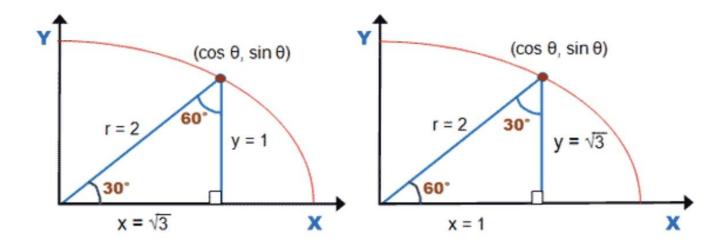
Quadrant	Measure of Angle Theta	Measure of Reference Angle
Í	0° to 90°	theta
11	90° to 180°	180° – theta
Ш	180° to 270°	theta – 180°
IV	270° to 360°	360° – theta

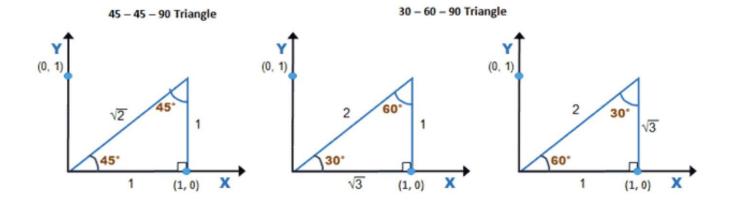


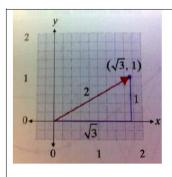




Rationalize the Denominator You cannot have a radical in the denominator.







X	$\sin(x)$	cos(x)
0	0	1
$\frac{\pi}{6}$	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$
$\frac{\pi}{4}$	$\frac{1}{\sqrt{2}}$	$\frac{1}{\sqrt{2}}$
$\frac{\pi}{3}$	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$
$\frac{\pi}{2}$	1	0
$\frac{2\pi}{3}$	$\frac{\sqrt{3}}{2}$	$-\frac{1}{2}$
$\frac{3\pi}{4}$	$\sqrt{2}$	$-\frac{1}{\sqrt{2}}$
<u>5π</u> 6	$\frac{1}{2}$	$-\frac{\sqrt{3}}{2}$

X	$\sin(x)$	$\cos(x)$
π	0	-1
$\frac{7\pi}{6}$	$-\frac{1}{2}$	$-\frac{\sqrt{3}}{2}$
$\frac{5\pi}{4}$	$-\frac{1}{\sqrt{2}}$	$-\frac{1}{\sqrt{2}}$
$\frac{4\pi}{3}$	$-\frac{\sqrt{3}}{2}$	$-\frac{1}{2}$
$\frac{3\pi}{2}$	-1	0
$\frac{5\pi}{3}$	$-\frac{\sqrt{3}}{2}$	$\frac{1}{2}$
$\frac{7\pi}{4}$	$-\frac{1}{\sqrt{2}}$	$\frac{1}{\sqrt{2}}$
$\frac{11\pi}{6}$	$-\frac{1}{2}$	$\frac{\sqrt{3}}{2}$

Figure 1: Selected Values of Sine and Cosine

(01)

If tan = ¾ and sec < 0, in which quadrant does angle lie?

What are the values of the remaining angles?

(02)

The value of cos (- $\pi\,/\,3$) is

A	В	С	D
1/2	- 1/2	$\frac{\sqrt{3}}{2}$	$-\frac{\sqrt{3}}{2}$

(03)

Assume $\cos = 3/5$, and $3\pi/2 < Degree < 2\pi$. Find the remaining trig values.

(04)

Find the exact value of the five remaining trig functions if tan = -4/3 and cos < 0

(05)

If tan = and sec < 0, in which quadrant does angle lie?

What are the values of the remaining angles?

(06)

If $\sin \theta = \frac{1}{3}$ and θ is in quadrant II, find all other trigonometric functions of θ .

(07)

Find the exact values of each of the remaining trigonometric functions of θ when $\tan \theta = -\frac{1}{8}$ and $\sec \theta < 0$.

(08)

Name the quadrant in which the angle θ lies when $\cos \theta < 0$ and $\tan \theta < 0$.

(09)

(10)