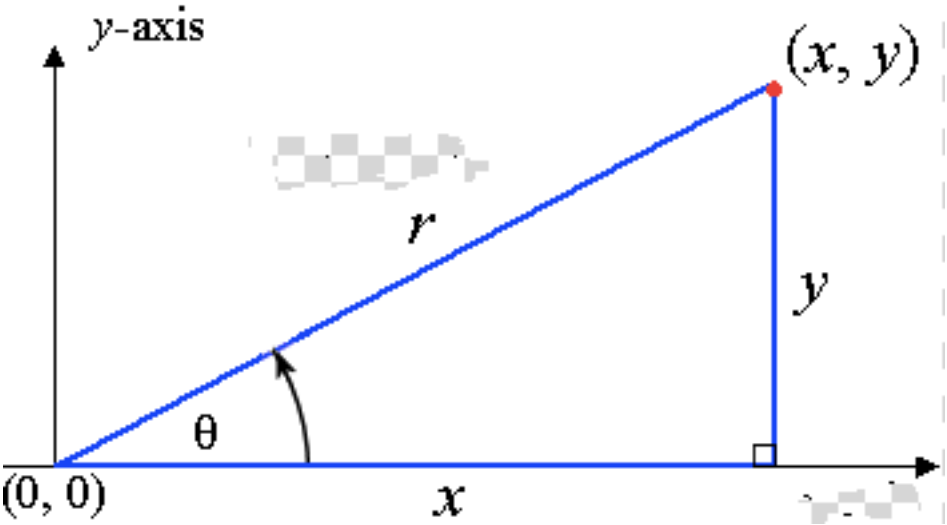
6.2

Draw the **special angle triangles** IN RADIANS.

How do you find **all the special angles** in the interval [0,2pi]?

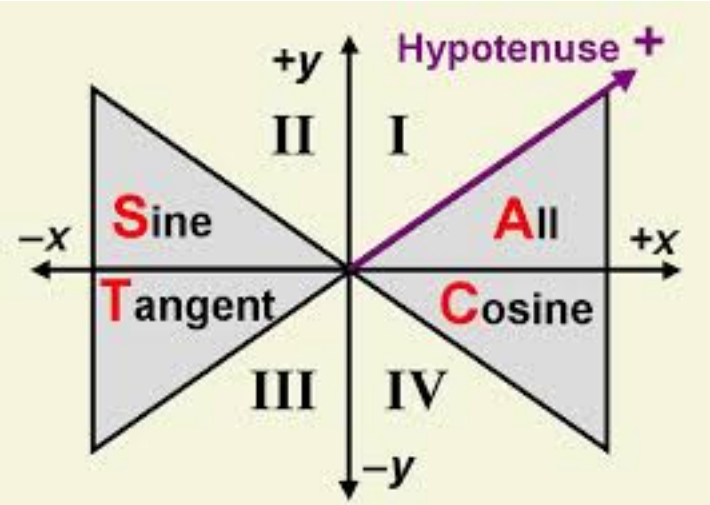


Label the diagram:

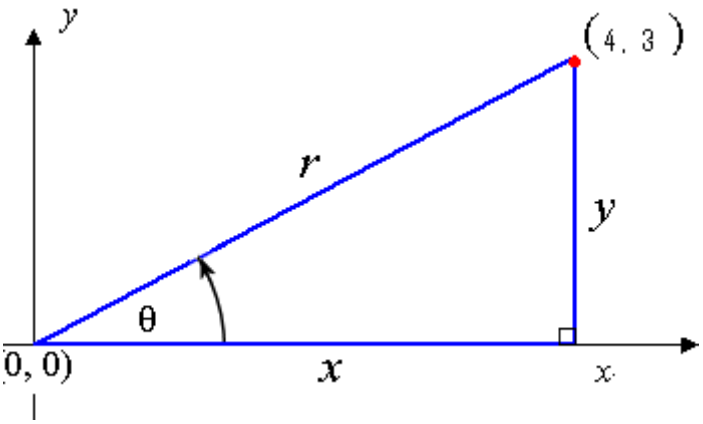
Initial arm
Terminal arm
Angle in standard position

Determine an **equation for r.**

What is the CAST rule?


+y
Hypotenuse +
II
I
Sine
All
−x
+x
Tangent
Cosine
III
IV
−y

Find the angle in radians of the angle whose terminal arm ends at (4,3).



Find the angle in radians of the angle whose terminal arm ends at (3,-7)

Find the angle in radians of the angle whose terminal arm ends at (-4,-9)

Determine $\sin(3\pi/2)$ two ways.

Determine the exact value of cot (π /2)

Determine the exact value of sin $4\pi/3$.

Related Acute Angle
In Q2 $\theta r = \pi - \theta$ In Q3 $\theta r = \theta - \pi$ In Q4 $\theta r = 2\pi - \theta$

Determine the exact value of cos $(5\pi/4)$ and csc$(11\pi/6)$

If $\cos \theta = -\ 6/7$, where $\theta \ \epsilon\ [0,2\theta]$, evaluate θ to the nearest hundredth.

Solve for θ if $\tan \theta = -\ 7/24$

HOMEWORK: pg 330 #5-10 ; 13-16