

Unit #6: Graphs and Inverses of Trig Functions

Lesson 2: Evaluate Trig Functions of Angles Not on Unit Circle

EQ:

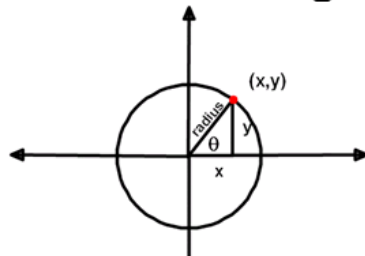
Yesterday we derived all of values of the 6 trig functions for the angles on the \_\_\_\_\_. We were able to do this because all \_\_\_\_\_ on the Unit Circle are one of our "special angles" --- \_\_\_\_\_°, \_\_\_\_\_°, or \_\_\_\_\_°.

On the Unit Circle, since the \_\_\_\_\_ (\_\_\_\_\_ ) is 1,  $\cos \theta$  will always = the \_\_\_\_\_ side and  $\sin \theta$  will always = the \_\_\_\_\_ side.

But what happens if you are \_\_\_\_\_ on the \_\_\_\_\_ and \_\_\_\_\_ is \_\_\_\_\_ one of the \_\_\_\_\_?

RECALL: Define the 6 Trig Functions Using a Right Triangle

### Coordinate Plane Trigonometry



$\sin \theta =$

$\cos \theta =$

$\tan \theta =$

$\csc \theta =$

$\sec \theta =$

$\cot \theta =$

In class examples: Define all 6 trig functions at the given point.

- (3, 1)

2.  $(-24, 10)$

3.  $(-5, -6)$

4.  $(6, -14)$

❖ Assignment: Worksheet #3: Evaluate Trig Functions On and Off the Unit Circle

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