

**Daily Agenda**

Learning Target: I can identify key values from the unit circle.

<b>Homework</b>	<b>Assessments</b>
8.1 Day 2 WS Finish Unit Circle	Unit Circle Mastery Quiz 2/7

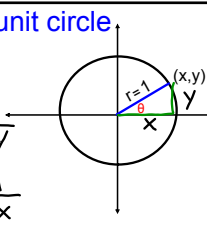
You have brains in your head. You have feet in your shoes.  
You can steer yourself any direction you choose.  
- Dr. Seuss

Nov 15-8:24 PM

**8.1 Unit Circle** unit circle

What are the six trig functions?

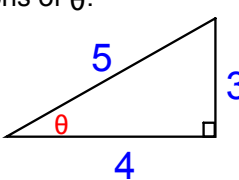
$\sin \theta = y$ Sine	$\csc \theta = \frac{1}{y}$ cosecant
$\cos \theta = x$ cosine	$\sec \theta = \frac{1}{x}$ secant
$\tan \theta = \frac{y}{x}$ tangent	$\cot \theta = \frac{x}{y}$ cotangent



Feb 9-11:33 AM

**8.1 Unit Circle and Trig Functions**

Find the six trig functions of  $\theta$ .

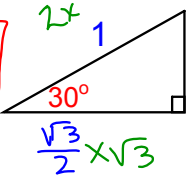


Feb 9-11:33 AM

Find  $\sin \theta$  and  $\cos \theta$

$$\cos 30^\circ = \frac{\sqrt{3}}{2}$$

$$\sin 30^\circ = \frac{1}{2}$$

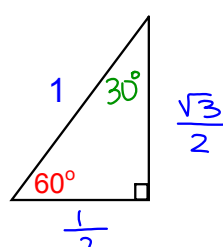


Feb 9-11:33 AM

Find  $\sin \theta$  and  $\cos \theta$

$$\cos 60^\circ = \frac{1}{2}$$

$$\sin 60^\circ = \frac{\sqrt{3}}{2}$$

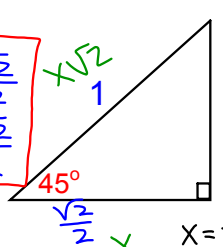


Feb 9-11:33 AM

Find  $\sin \theta$  and  $\cos \theta$

$$\cos 45^\circ = \frac{\sqrt{2}}{2}$$

$$\sin 45^\circ = \frac{\sqrt{2}}{2}$$



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

Feb 9-11:33 AM

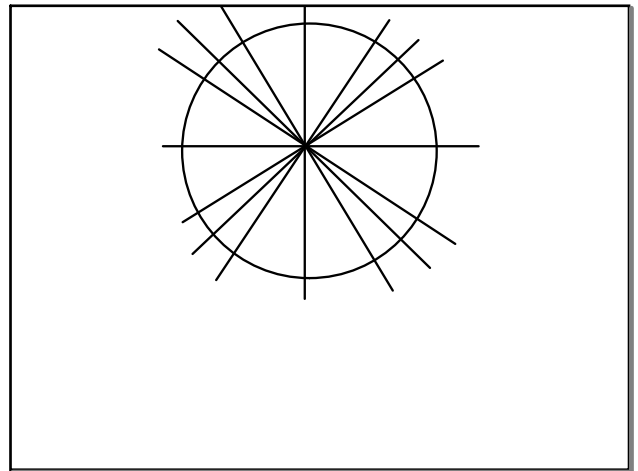
How can we apply this to the unit circle?

Let's fill in the angles first

Find the radians

Find  $\sin\theta$  and  $\cos\theta$

Mar 1-8:27 AM



Mar 1-8:30 AM

In closing . . .

Explain to your table  
how to create the unit  
circle

Mar 1-8:57 AM