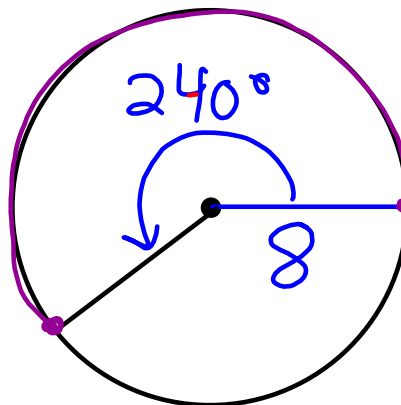


Warm Up: Pre - Calc

1/14

Find the Arc length



Feb 27-7:39 AM

W.A.L.T.:

Day 2

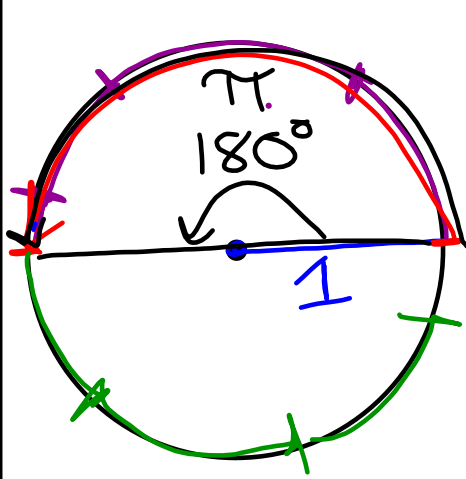
Connect our understanding of circumference to figure out radians.

W.A.S.I.:

We can convert from degrees to radians and radians to degrees.

Mar 7-9:45 AM

Notes!!! Radians.



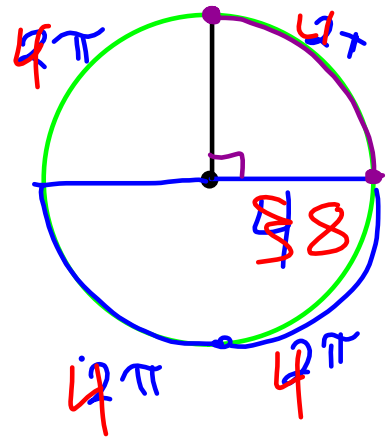
$$C = 2\pi$$

Mar 7-1:33 PM

Notes!!! Arc Length

Sometimes we only want to know what part of the circumference is...we call this the arc length.

$$\frac{90}{360} = \frac{1}{4} \cdot 8\pi = 2\pi$$



Mar 7-1:33 PM

Notes!!! Converting Radians and Degrees

To convert

From radians to degrees:

$$\frac{\pi}{3} \cdot \frac{180}{\pi}$$

From degrees to radians:

$$\frac{\pi}{180}$$

Mar 7-1:33 PM

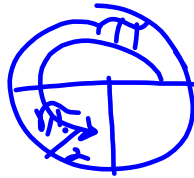
In Class Work:

Convert to radians.

1) 150°

2) $270^\circ = \frac{3\pi}{2}$

3) $330^\circ = \frac{11}{6}\pi$



Convert to degrees.

1) $\pi/2$

2) $7/12\pi$

3) $4/5\pi$ 144

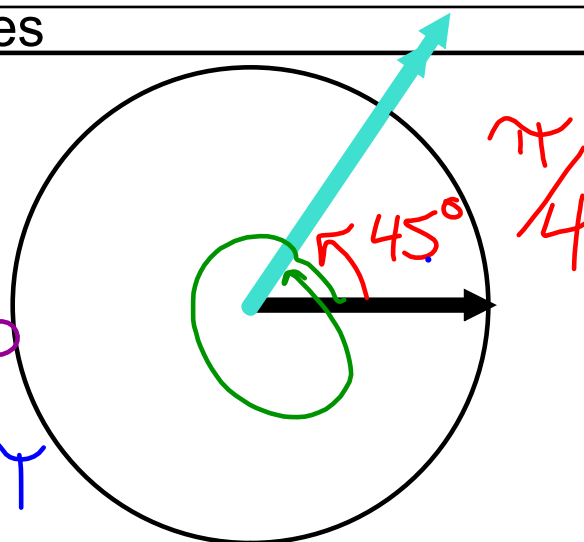
Mar 7-1:33 PM

Notes!!! Coterminal Angles

Coterminal angles are angles that have the same initial and terminal sides but they have different measures.

$$45 - 360$$

$$\frac{\pi}{4} - 2\pi$$



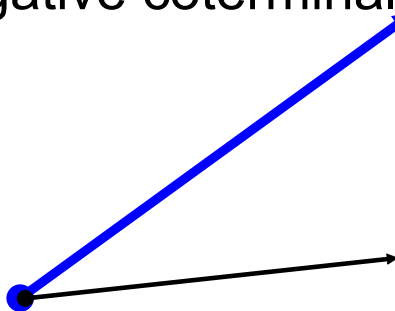
Mar 7-1:33 PM

In Class Work:

Find a positive and a negative coterminal angle to the following.

1) 45

2) $\frac{2}{3}\pi$



Mar 7-1:33 PM

Today's Activities:

- Understanding radian measure

P.W. for tonight:

- pg. 189 #10 - 14, pg. 191 #4 - 6

Use all your resources, do what it takes to figure out the problem!

Feb 27-7:23 AM