WARM UP

1) Fill in the table to show your understanding of the unit circle. Determine which quadrant or axis the angle lies.

DEGREES	WHERE AM I?
₱90°	pos y-axis
150°	2
6 −330°	ı
240°	3

Trigonometry Unit

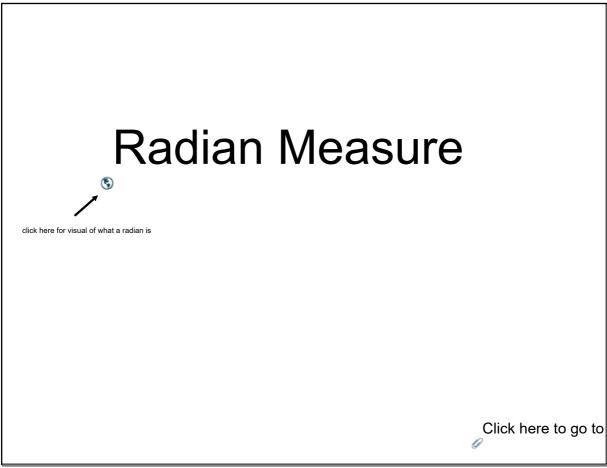
2) Using your special right triangles or chart, find the following ratios:

$$\sin 30^{\circ} = \frac{1}{2}$$
 $\cos 45^{\circ} = \frac{1}{12}$
 $\cot 60^{\circ} = \frac{1}{15}$
 $\cot 60^{\circ} = \frac{1}{15}$

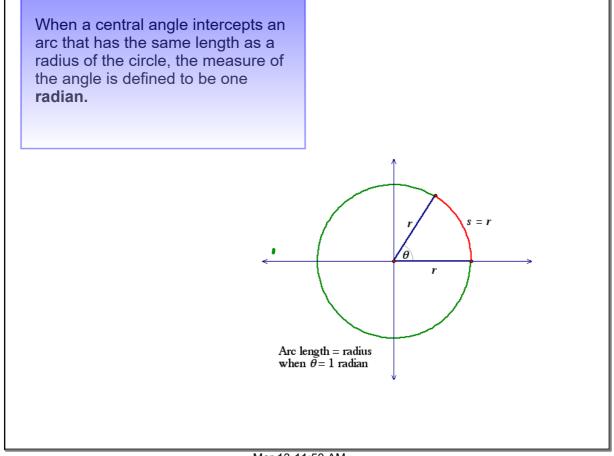
3) What is the formula for the circumference of a circle?

Mar 14-3:59 PM

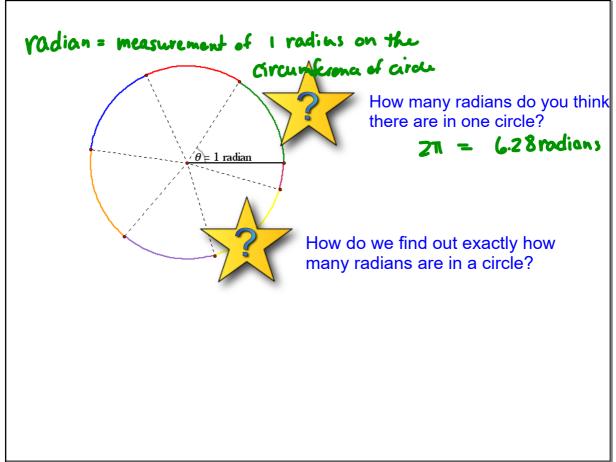
13.3 Radian Measure



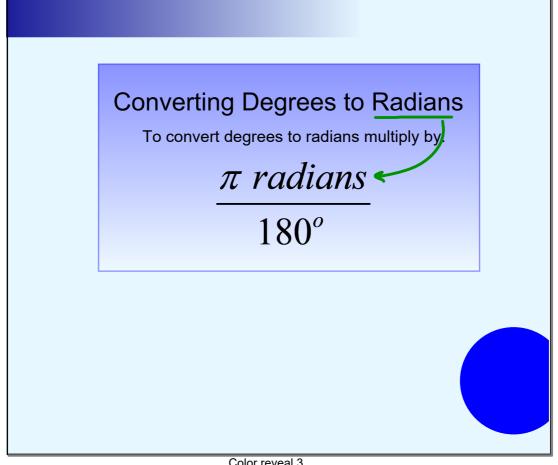
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Color reveal 3

Rewrite each measure in radians Express the answer in terms of ${\mathcal H}$

1)
$$45^{\circ} \cdot \frac{7}{180}$$
 2) $150^{\circ} \cdot \frac{7}{180}$ 3) $270^{\circ} \cdot \frac{7}{180}$ 45 $\frac{45}{180} \div \frac{5}{5}$ $\frac{150}{130} \div \frac{3}{180}$ $\frac{2707}{180} \div \frac{4}{5}$

$$\frac{45\pi}{180} \div \frac{5}{5}$$
 $\frac{150\pi}{180} \div \frac{3}{5}$

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Converting Radians to Degrees

To convert radians to degrees multiply by:

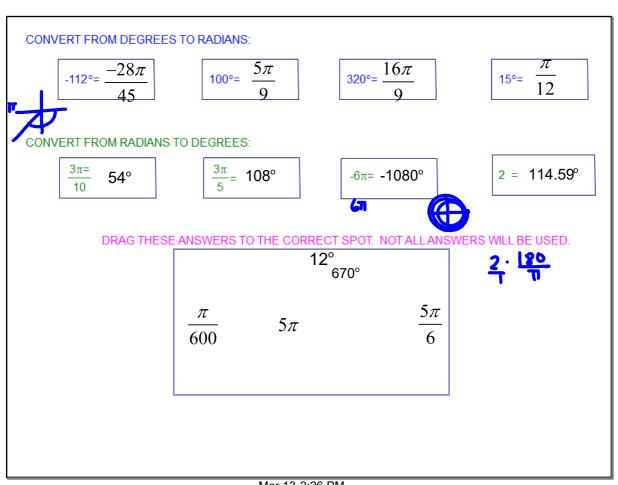
180°

 π radians



Rewrite each measure in degrees. Round to nearest degree.

Mar 13-1:58 PM



In which quadrant or on which axis does the terminal side of each angle lie? Note: these angles are given in radians.

$$\frac{\pi}{3}$$
 $\frac{17\pi}{9}$

$$\frac{7\pi}{2}$$



Mar 15-1:39 PM

To find coterminal angles, you add or subtract 360°. What if the angle is in radians? What would you add or subtract?

Find one positive and one negative coterminal angle.

$$\frac{3\pi}{5} + \cot A = \frac{2\pi}{7}$$

$$\frac{3\pi}{7} + 2\pi = \frac{3\pi}{7} + 2\pi =$$

Feb 28-4:17 PM



Head on over to google classroom to complete a self - check puzzle so I can check your understanding of radians and degrees. When you are done, start HW WB pg. 94 #1-30 all.

Mar 14-4:30 PM

13.3 Radian Measure.gsp