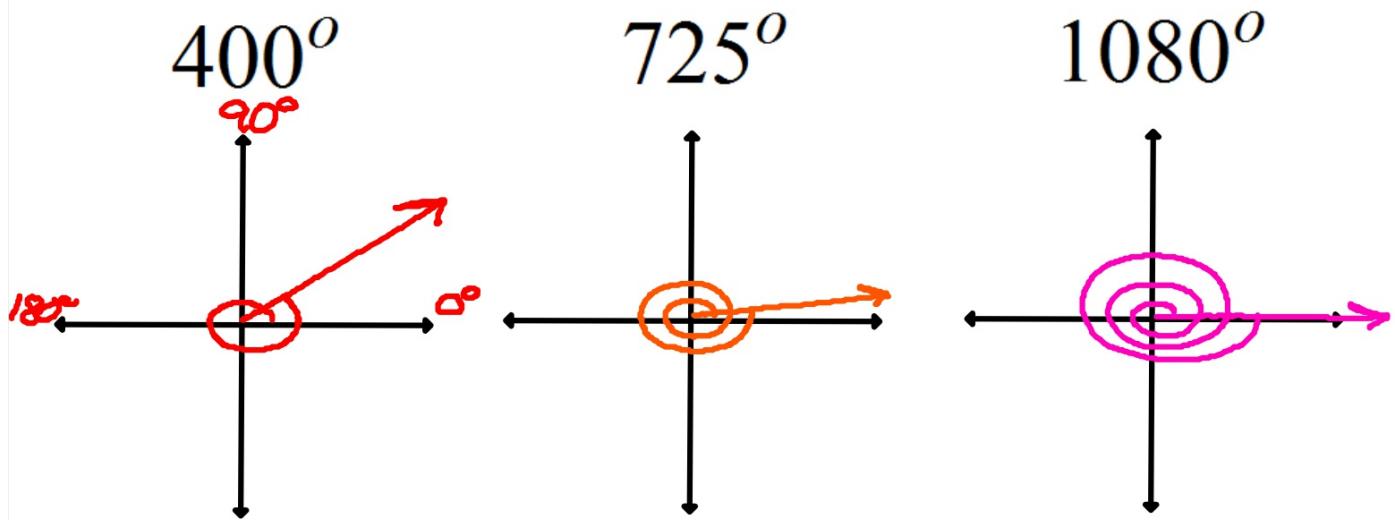
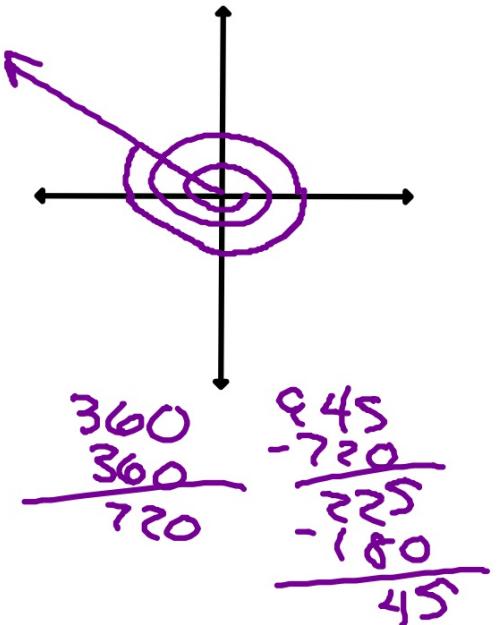
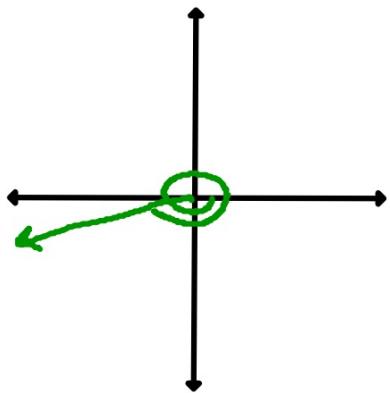
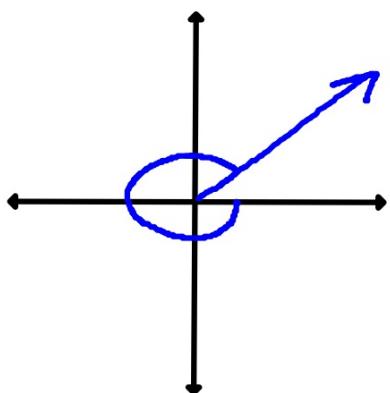


April 25, 2012 Algo
Get out your homework



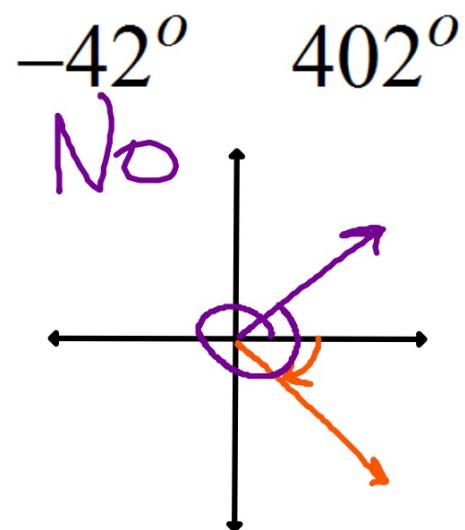
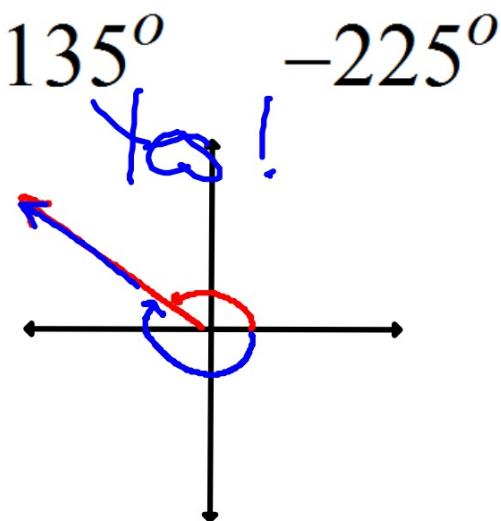
4/25 - Angle of Rotation and Radian Measure



-315° -520° -945° 

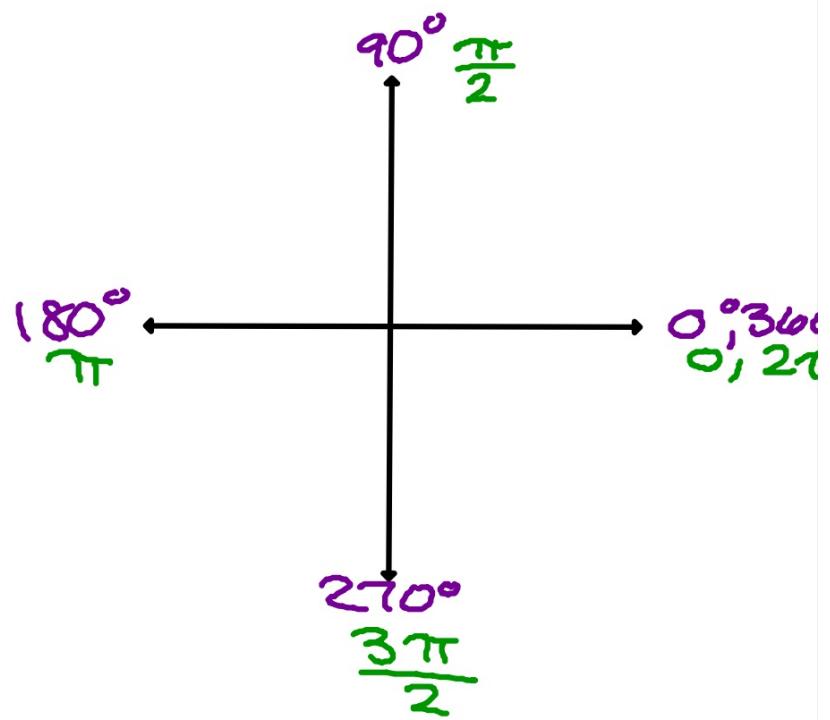
Two angles are "coterminal" if
ends together

Are the given pairs of angles coterminal?



Radian measure:

$$180^\circ = \pi$$



To convert between radians and degrees, use a unit fraction:

$$\frac{180^\circ}{\pi} \text{ or } \frac{\pi}{180^\circ}$$

Convert to radians:

$$\cancel{\frac{60^\circ}{1}} \cdot \frac{\pi}{\cancel{180^\circ}} = \frac{\pi}{3}$$

$$\cancel{-100^\circ} \cdot \frac{\pi}{\cancel{180^\circ}} = -\frac{5\pi}{9}$$

Convert to degrees:

$$\frac{\pi}{4} \cdot \frac{180^\circ}{\pi} = 45^\circ$$

$$\frac{5\pi}{6} \cdot \frac{180^\circ}{\pi} = 150^\circ$$

Complementary angles add up to 90° or $\frac{\pi}{2}$

Supplementary angles

Find the complement of each:

$$17^\circ$$

$$\frac{3\pi}{10}$$

Find the supplement of each:

$$62^\circ$$

$$\frac{5\pi}{8}$$

Homework

Pg 689 #8-62 evens

Due Tuesday