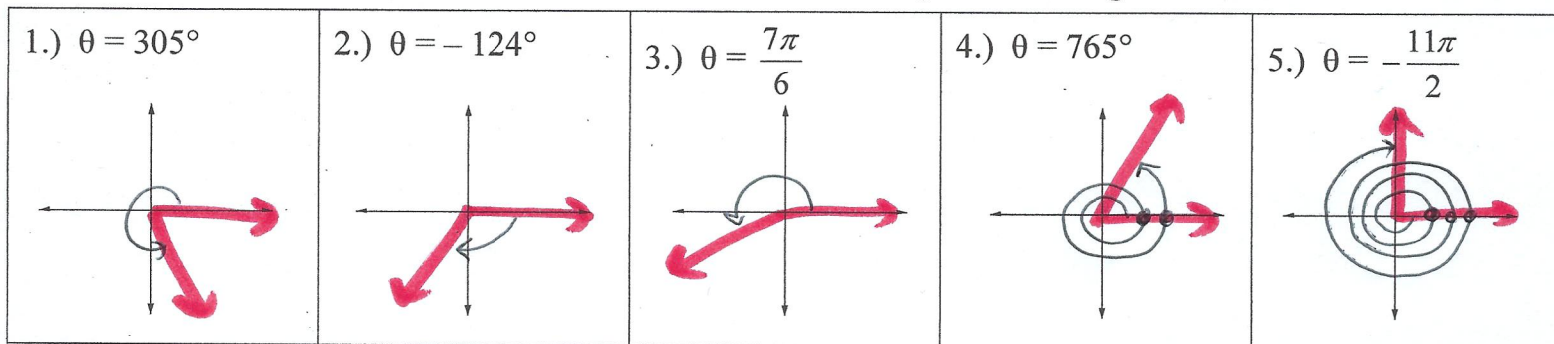


I. For each angle  $\theta$  below, do the following:

- a.) Draw your angle with a colored marker. Indicate the angle's direction with an arrow.  
b.) If your angle is more than  $360^\circ$ , then indicate that in your drawing with "swirlies".



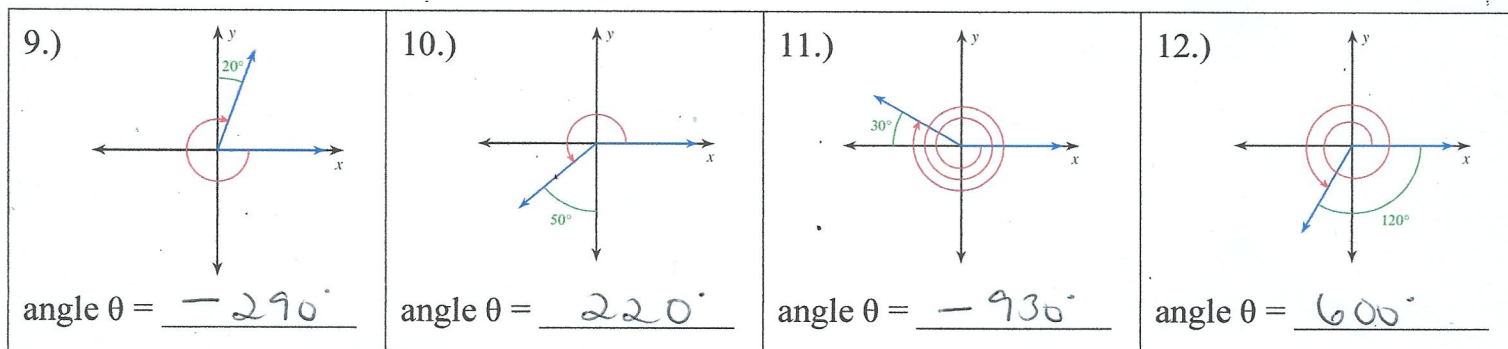
II. Convert each angle measure to the appropriate angle measurement. Show work on line!

Degree Measure $\rightarrow$ Radian Measure	Radian Measure $\rightarrow$ Degree Measure
6.) $\theta = 120^\circ \rightarrow \underline{\frac{2\pi}{3}}$	7.) $\theta = \frac{13\pi}{4} \rightarrow \underline{585^\circ}$

III. Find a positive and a negative coterminal angle for the given angle  $\theta$ . Keep units consistent.

- 8.) a.)  $\theta = 302^\circ \rightarrow$  positive coterminal angle =  $662^\circ$  ; negative coterminal angle =  $-58^\circ$   
b.)  $\theta = \frac{4\pi}{3} \rightarrow$  positive coterminal angle =  $\frac{10\pi}{3}$  ; negative coterminal angle =  $-\frac{2\pi}{3}$

IV. Determine the measure of each angle  $\theta$  in each drawing.



V. Use appropriate formula to complete each problem below. Round to tenth place. Show work!

Arc Length  $\rightarrow s = r \cdot \theta$  or Sector Area  $\rightarrow A = \frac{1}{2} \cdot r^2 \cdot \theta$  where angle  $\theta$  is in radians

