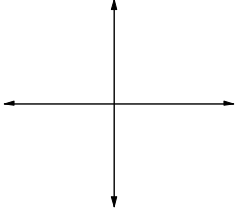
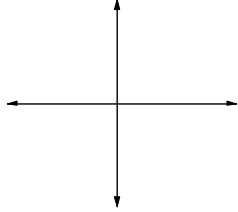
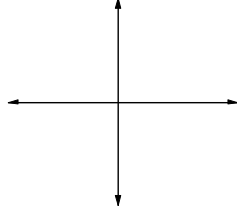
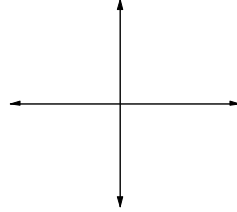
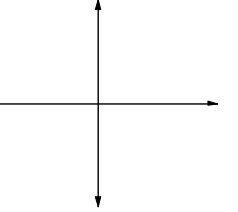


I. For each angle θ below, do the following:

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

1.) $\theta = 305^\circ$	2.) $\theta = -124^\circ$	3.) $\theta = \frac{7\pi}{6}$	4.) $\theta = 765^\circ$	5.) $\theta = -\frac{11\pi}{2}$
				

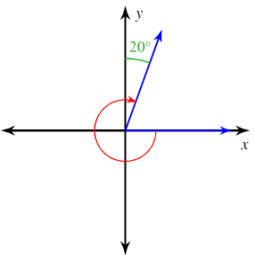
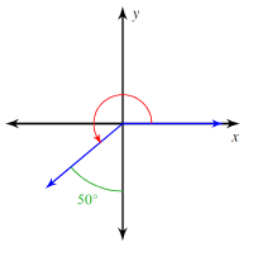
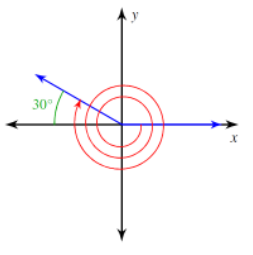
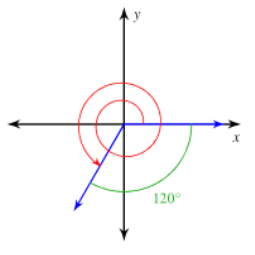
II. Convert each angle measure to the appropriate angle measurement. Show work on line!

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

III. Find a positive and a negative coterminal angle for the given angle θ . Keep units consistent.

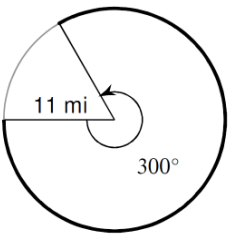
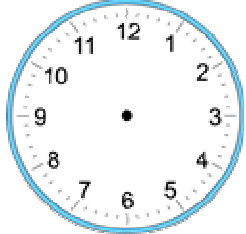
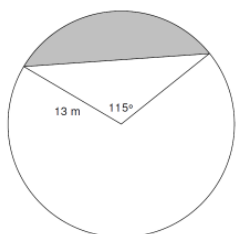
- 8.) a.) $\theta = 302^\circ \rightarrow$ positive coterminal angle = _____ ; negative coterminal angle = _____
b.) $\theta = \frac{4\pi}{3} \rightarrow$ positive coterminal angle = _____ ; negative coterminal angle = _____

IV. Determine the measure of each angle θ in each drawing.

9.)  angle $\theta =$ _____	10.)  angle $\theta =$ _____	11.)  angle $\theta =$ _____	12.)  angle $\theta =$ _____
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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 θ is in radians

13.)  a.) arc length = _____ b.) sector area = _____	14.) An analog clock reads a time of 8:02. What is the measure of the angle between the hour hand and the minute hand of the clock? 	15.)  a.) Perimeter of shaded region = _____ b.) Area of shaded region = _____
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