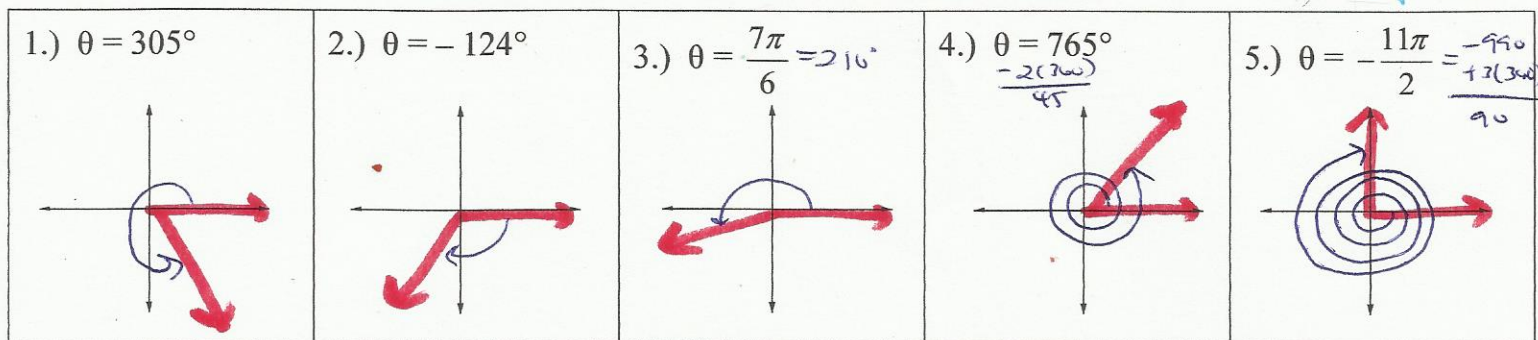


I. For each angle θ below, do the following:

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": 6pts ea



II. Convert each angle measure to the appropriate angle measurement. Show work on line! 5pts ea

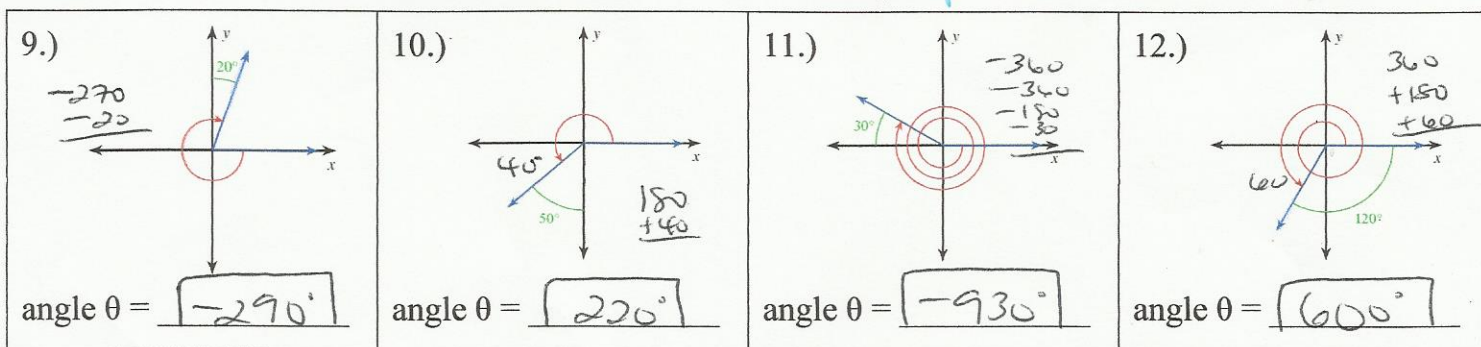
Degree Measure \rightarrow Radian Measure	Radian Measure \rightarrow Degree Measure
6.) $\theta = 120^\circ \rightarrow 120^\circ \times \frac{\pi}{180} = \boxed{\frac{2\pi}{3}}$	7.) $\theta = \frac{13\pi}{4} \rightarrow \frac{13\pi}{4} \times \frac{180}{\pi} = (\frac{13}{4}) \times 180 = \boxed{585^\circ}$

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 = $302 + 360 = 662^\circ$; negative coterminal angle = $302 - 360 = -58^\circ$

b.) $\theta = \frac{4\pi}{3} \rightarrow$ positive coterminal angle = $\frac{4\pi}{3} + 2\pi = \frac{10\pi}{3}$; negative coterminal angle = $\frac{4\pi}{3} - 2\pi = -\frac{2\pi}{3}$

IV. Determine the measure of each angle θ in each drawing. 5pts ea



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

