Trig 2-1 & 2-3 Quiz Review

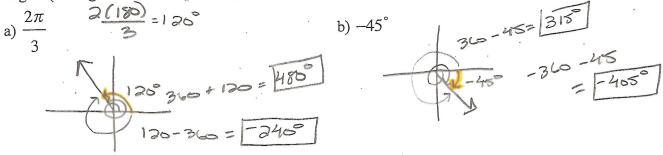
Name _____

1) Which is larger: an angle of degree measure 280 or an angle of radian measure 5? Explain. Show work to support your answer.

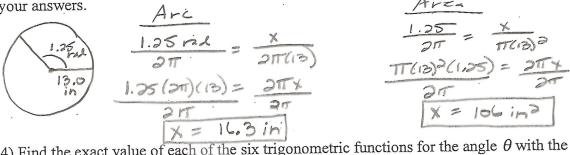
Explain. Show work to support your answer.

$$\frac{380}{180} = \frac{180 \times 1}{180} = \frac{180$$

2) Sketch an angle in its standard position and find the degree measure of the two nearest angles (on negative and one positive) that are co-terminal to the given angle.



3) In a circle of radius 13.0 in, find the **length of the arc** subtended by a central angle AND the **area of the circular sector** with central angle of 1.25 radians. Be sure to label your answers.



4) Find the exact value of each of the six trigonometric functions for the angle θ with the terminal side containing P(-7, -5). Be sure to draw a reference triangle and label its sides.

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$$\sqrt{74}$$

Since $\sqrt{74}$
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5) Tell me what calculator MODE you would use to evaluate these problems. Then evaluate to 3 significant digits.

$$P_{\text{egree}}$$
 a) $\tan -279^{\circ} = 6.31$ b) $\cot -3.12 = 46.3$