Pre-Calculus A 120

Check Your Understanding – Angles and Trig Ratios

Answer the questions in the space provided.

- 1. Draw the following angles in standard position. In which quadrant does the terminal arm lie?
 - a) 586°
 - b) $-\frac{8\pi}{3}$
- 2. Write the following angles in decreasing order of magnitude. Justify your answer.

618°	9π	14π	4.45
	10	3	

3. Determine all angles that are coterminal in the given domain.

207°, $-420^\circ \leq \theta \leq 1000^\circ$

4. Bubba is marking a sector of a circle on a sports field as shown below. What is the perimeter of the sector? Show your work and round your answer to the nearest tenth of a meter.



- 5. State the general expression for all angles coterminal with $\frac{5\pi}{9}$.
- 6. If $\sin \theta = -\frac{3}{7}$ and $\cos \theta > 0$ determine the *exact values* of the other 5 trigonometric ratios. Include a neatly labelled diagram and show your work.