Math 20 Pre-Calculus
PRACTICE QUIZ TRIGONOMETRY

20.2	2	3	4
Outcome 2.1: I can demonstrate understanding of standard position, primary trig ratios	I can demonstrate understanding of: - standard position of an angle and quadrants - (+/-) signs of trig ratios and the CAST rule - location of angles on the coordinate plane I can **determine** and apply reference angles I can determine exact trig values given a point on the terminal arm	I can determine exact trig values given an angle with the use of special triangles I can solving basic trig equations such as sin B = a	Solve a contextual problem, using trig ratios. Identify angles for which the tangent ratio does not exist and explain why.

Level 2

1. Draw the following angles in standard position and state the quadrant in which they terminate.

   a) $-20°$

   b) $195°$

   c) $235°$

2. State the reference angle for each of the following.

   a) $345°$

   b) $-153°$

3. Determine the value of $\sin\theta$, $\cos\theta$, $\tan\theta$ given:

   a) P(2,5)

   b) P(-1,-6)

Level 3

4. Determine the exact primary trigonometric ratios for each angle in standard position.

   a) $135°$

   b) $300°$

5. Each angle θ is in standard position. State the quadrants in which the terminal arm of the angle could lie.

   a) $cos\theta = -\dfrac{2}{3}$

   b) $tan\theta = -4$

6. To the nearest degree, which values of θ satisfy each equation for $0° \le \theta \le 360°$?

   a) $\tan\theta = \dfrac{1}{2}$

Level 4

7. A hiker sketches a map of her destination, D, form her starting point, O. The hiker can travel only west, then north. To the nearest kilometer, how far must she hike to get to her destination?