MEMORIAL UNIVERSITY OF NEWFOUNDLAND

DEPARTMENT OF MATHEMATICS AND STATISTICS

SECTION 3.1 **Math 1090 Worksheet** FALL 2009

For practise only. Not to be submitted.

1. Determine all the trigonometric ratios of

   (a) $0°$

   (b) $30°$

   (c) $45°$

   (d) $60°$

   (e) $90°$

2. Suppose θ is an interior angle of a right triangle with adjacent side of length 4 and opposite side of length $4\sqrt{3}$. Using your knowledge of the special angles, identify θ.

3. Given that θ is an interior angle of a right triangle for which $\tan(\theta) = \dfrac{12}{5}$, find the other five trigonometric ratios of θ.

4. A ladder leans against a (vertical) wall, making an angle of $35°$ with the ground. In this position, the top of the ladder is 4 metres above the ground. Approximate the length of the ladder to two decimal places.