Dawson College: Functions and Trigonometry: 201-009-50-S1: Fall 2008

Student ID:

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Ouiz 8

This quiz is graded out of 10 marks. No books, calculators, notes or cell phones are allowed. You must show all your work, the correct answer is worth 1 mark the remaining marks are given for the work. If you need more space for your answer use the back of the page.

Question 1. pg.150#10b (3 marks) What angle θ (0° $\leq \theta < 360^{\circ}$) is co-terminal to 1140°.

$$O_1 = O_2 + K \cdot 360^{\circ}$$

 $1140^{\circ} = O_2 + 3 \cdot 360^{\circ}$
 $60^{\circ} = O_2$

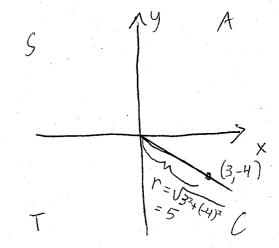
$$K = \left[\frac{1140}{360} \right] = \left[\frac{3.16}{3.16} \right] = \frac{3}{3}$$

Question 2. pg.153#4b (5 marks) Find the values of the other trigonometric functions, if: $\cot \theta = -\frac{3}{4}$ and $\cos \theta > 0$.

$$\cot \theta = \frac{X}{y} = \frac{3}{-4} \quad \tan \theta = \frac{-4}{3}$$

$$\sin \theta = \frac{y}{r} = \frac{-4}{5} \quad \csc \theta = \frac{5}{-4}$$

$$\cos \theta = \frac{X}{r} = \frac{3}{5} \quad \sec \theta = \frac{5}{4}$$



Question 4. pg.153#3e (2 marks) $\csc \theta < 0$ and $\sec \theta > 0$.

, 4th quadrant