Dawson	College:	Calculus	T٠	201-NY	A-05-	S4·	Winter	2012
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Name:	
Student ID:	

Quiz 3

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. $\S 2.3 \# 67 \ (4 \ marks)$ Given the supply and demand equations, where x represents the quantity demanded in units of a thousand and p the unit price in dollars, find the equilibrium quantity and the equilibrium price.

$$p = -2x^2 + 80$$
 and $p = 15x + 30$

Question 2.

- a. (1 mark) §12.1 #8 Convert the angle 330° to randian measure.
- b. (1 mark) §12.1 #14 Convert the angle $\frac{7}{6}\pi$ to degree measure.

Question 3. §12.2 #17 (4 marks) Find all values of θ that satisfy the equation over the interval $[0, 2\pi]$

$$\cot \theta = -\sqrt{3}$$