Dawson	College:	Calculus 1	I: 201	-NYA-()5-S4:	Winter 2012
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Name:	
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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. $\S 2.3 \# 66 (4 \ marks)$ 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.

$$p = -x^2 - 2x + 100$$
 and $p = 8x + 25$

Question 2.

- a. (1 mark) §12.1 #10 Convert the angle -210° to randian measure.
- b. (1 mark) §12.1 #16 Convert the angle $-\frac{13}{12}\pi$ to degree measure.

Question 3. §12.2 #18 (4 marks) Find all values of θ that satisfy the equation over the interval $[0, 2\pi]$

$$\csc \theta = \sqrt{2}$$