

# Math 2003 || Quiz # 8

Name		Section	Day or Night	Date	Nov 12, 15 (Wednesday)
Time : 15 minutes					
Items		Points		Your score	
Question 1		100%			
You have earned					

1. Suppose that the relationship between price of and demand for a certain type of large color television set is given by the demand equation  $10p + x = 10,000$  where  $p$  is the per unit price in dollars and  $x$  is the number of sets demanded. If the producer cost is  $C(x) = 600x + 300$ ; (a) determine the revenue function; (b) Determine the marginal revenue function; (c) Determine the profit function (d) Determine the marginal profit function (e) What is the price for each TV when the marginal profit is zero?