Dawson College: Calculus I: 201-NYA-05 S17		October 28, 2011
	Last Name:	
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Quiz 7

Question 1. (10 marks) The weekly demand for the Pilsar 25 colour LED television is

$$p = 600 - 0.05x \ (0 \le x \le 12\ 000)$$

denotes

were p denotes the wholesale unit price in dollars and x the quantity demanded. The weekly total cost function associated with manufacturing the Pilsar 25 is given by

$$C(x) = 0.000002x^3 - 0.03x^2 + 400x + 80000$$

where C(x) denotes the total cost incurred in producing x sets.

- (a) Find the revenue function R(x) and the profit function P(x)
- (b) Mind the marginal cost, marginal revenue and marginal profit function.
- (c) Evaluate C'(2000) and P'(2000). What do these values tell us?