Quiz 6

Question 1.(*10 marks*) The weekly demand for the pulsar 25 colour LED television is
$p = 600 - 0.05x$ where p denotes the wholesale unit price in dollars and x denotes the quantity
demanded. The weelky total cost function associated with manufacturing the Pulsar 25 is given by
$C(x) = 0.000002x^3 - 0.03x^2 + 400x + 80\,000$ where $C(x)$ denotes the total cost incurred in producing x sets.
(a) Find the Revenue function and the profit function.
(b) Find the marginal cost function, marginal revenue function and marginal profit function.
(c) Evalutae the functions from part **(b)** at $x = 2000$ and interpret your results.