



B.E. International Program

Faculty of Economics, Thammasat University



EE 320 Introductory Mathematical Economics (Section 046402)

Semester 1/2013

Practice Problem 5 (Differential Calculus)

1. Exercise 7.1 questions 2 and 3(a, c, d) in Chiang and Wainwright (2005)
2. Exercise 7.2 questions 1, 2, 4, 7, and 10 in Chiang and Wainwright (2005)
3. Exercise 7.3 questions 1, 3, and 4 in Chiang and Wainwright (2005)

(Questions 4 – 5 are from Dowling, 2012)

4. Find the marginal and the average functions for each of the following total functions.

a) $TC = 3Q^2 + 7Q + 12$

b) $\pi = Q^2 - 13Q + 78$

5. Given $C = 1200 + 0.8Y_d$, $Y_d = Y - T$, and $T = 100$, use the derivative find the marginal propensity to consume (MPC).