

Name:

Section 3.4 – In class examples

Math 151 – Spring 2018

Section 3.4

1. Find the derivative of each of the following functions

(a)  $f(t) = t \ln(t)$

(b)  $f(t) = \frac{5t^2}{t^4 + 1}$

2. A demand curve for a product has the equation  $p = 80e^{-0.003q}$ , where  $p$  is price and  $q$  is quantity sold.

(a) Find the revenue as a function of quantity sold

(b) Find the marginal revenue function.