

Name:
Section 4.4
Math 151

1. The demand for tickets to an amusement park is given by

$$p = 70 - 0.02q$$

where p is the price of a ticket in dollars and q is the number of people attending at that price.

- (a) What price generates an attendance of 3000 people? What is the total revenue at that price?
What is the total revenue if the price is \$20?

- (b) What attendance maximizes revenue?

- (c) What price should be charged to maximize revenue?

- (d) What is the maximum revenue? Can we determine the corresponding profit?