

Name: _____

Demand Functions

1. The demand function of some item is $p(x) = -3x + 9$ where x is the number of items sold in thousands.
 - a. Determine the revenue function.
 - b. Determine the maximum revenue in thousands of dollars.

2. Given the pair of revenue and cost functions below, determine:
 - a. The profit function
 - b. The value of x that maximizes profit

$$R(x) = -3x^2 + 26x, C(x) = 8x + 18$$