

77. Suppose that  $f(x) = x^2 + 4x - 21$ .
- What is the vertex of  $f$ ?
  - What are the  $x$ -intercepts of the graph of  $f$ ?
  - Solve  $f(x) = -21$  for  $x$ . What points are on the graph of  $f$ ?
  - Use the information obtained in parts (a)–(c) to graph  $f(x) = x^2 + 4x - 21$ .
78. Suppose that  $f(x) = x^2 + 2x - 8$ .
- What is the vertex of  $f$ ?
  - What are the  $x$ -intercepts of the graph of  $f$ ?
  - Solve  $f(x) = -8$  for  $x$ . What points are on the graph of  $f$ ?
  - Use the information obtained in parts (a)–(c) to graph  $f(x) = x^2 + 2x - 8$ .
79. Find the point on the line  $y = x$  that is closest to the point  $(3, 1)$ .  
[Hint: Express the distance  $d$  from the point to the line as a function of  $x$ , and then find the minimum value of  $[d(x)]^2$ .]
80. Find the point on the line  $y = x + 1$  that is closest to the point  $(-4, 1)$ .
81. **Maximizing Revenue** Suppose that the manufacturer of a gas clothes dryer has found that, when the unit price is  $p$  dollars, the revenue  $R$  (in dollars) is
- $$R(p) = -4p^2 + 4000p$$
- What unit price should be established for the dryer to maximize revenue? What is the maximum revenue?
82. **Maximizing Revenue** The John Deere company has found that the revenue, in dollars, from sales of heavy-duty tractors is a function of the unit price  $p$ , in dollars, that it charges. If the revenue  $R$  is
- $$R(p) = -\frac{1}{2}p^2 + 1900p$$
- what unit price  $p$  should be charged to maximize revenue? What is the maximum revenue?
83. **Minimizing Marginal Cost** The marginal cost of a product can be thought of as the cost of producing one additional unit of output. For example, if the marginal cost of producing the 50th product is \$6.20, it cost \$6.20 to increase production from 49 to 50 units of output. Suppose the marginal cost  $C$  (in dollars) to produce  $x$  thousand mp3 players is given by the function
- $$C(x) = x^2 - 140x + 7400$$
- How many players should be produced to minimize the marginal cost?
  - What is the minimum marginal cost?
84. **Minimizing Marginal Cost** (See Problem 83.) The marginal cost  $C$  (in dollars) of manufacturing  $x$  cell phones (in thousands) is given by
- $$C(x) = 5x^2 - 200x + 4000.$$
- How many cell phones should be manufactured to minimize the marginal cost?
  - What is the minimum marginal cost?
85. **Hunting** The function
- $$H(x) = -3.24x^2 + 242.1x - 738.4$$
- models the number of individuals whose age is  $x$  and engage in hunting activities.
- What is the age at which there are the most hunters? Approximately how many hunters are this age?

- Are the number of hunters increasing or decreasing for individuals who are between 40 and 45 years of age?

*Source: National Sporting Goods Association*

86. **Advanced Degrees** The function
- $$P(x) = -0.008x^2 + 0.815x - 9.983$$

models the percentage of the U.S. population whose age is  $x$  that have earned an advanced degree (more than a bachelor's degree) in March 2003.

- What is the age for which the highest percentage of Americans have earned an advanced degree? What is the highest percentage?
- Is the percentage of Americans who have earned an advanced degree increasing or decreasing for individuals between the ages of 40 and 50?

*Source: U.S. Census Bureau*

87. **Male Murder Victims** The function
- $$M(x) = 1.00x^2 - 136.74x + 4764.89$$

models the number of male murder victims who are  $x$  years of age ( $20 \leq x < 90$ ).

- Use the model to approximate the number of male murder victims who are  $x = 23$  years of age.
- At what age is the number of male murder victims 1456?
- Describe what happens to the number of male murder victims as age increases from 20 to 65.

*Source: Federal Bureau of Investigation*

88. **Health Care Expenditures** The function
- $$H(x) = 0.004x^2 - 0.197x + 5.406$$

models the percentage of total income that an individual who is  $x$  years of age spends on health care.

- Use the model to approximate the percentage of total income an individual who is  $x = 45$  years of age spends on health care.
- At what age is the percentage of income spent on health care 10%?
- Using a graphing utility, graph  $H = H(x)$ .
- Based on the graph drawn in part (c), describe what happens to the percentage of income spent on health care as individuals age.

*Source: Bureau of Labor Statistics*

89. **Business** The monthly revenue  $R$  achieved by selling  $x$  wristwatches is figured to be  $R(x) = 75x - 0.2x^2$ . The monthly cost  $C$  of selling  $x$  wristwatches is  $C(x) = 32x + 1750$ .

- How many wristwatches must the firm sell to maximize revenue? What is the maximum revenue?
- Profit is given as  $P(x) = R(x) - C(x)$ . What is the profit function?
- How many wristwatches must the firm sell to maximize profit? What is the maximum profit?
- Provide a reasonable explanation as to why the answers found in parts (a) and (c) differ. Explain why a quadratic function is a reasonable model for revenue.

90. **Business** The daily revenue  $R$  achieved by selling  $x$  boxes of candy is figured to be  $R(x) = 9.5x - 0.04x^2$ . The daily cost  $C$  of selling  $x$  boxes of candy is  $C(x) = 1.25x + 250$ .

# Hunter Education Workbook Answer Sheet

**JA Banks**



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