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[Hunter Education Homework Worksheet Answers Ny](#)

(d) 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?

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?

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