

CHAPTER  
**11**

**Extra Practice**

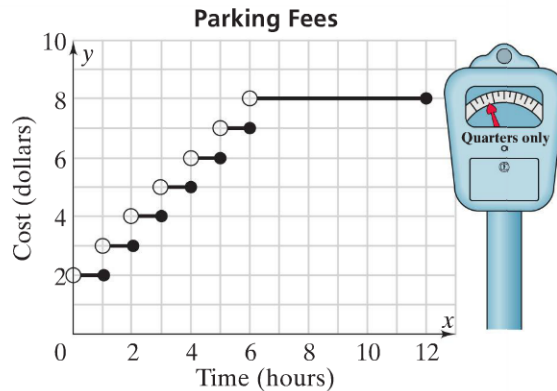
**Skills**

● **Lesson 11-1** Find the common difference or ratio in each sequence. Write the rule for each sequence and find the next three terms.

1. 4, 16, 64, ...      2. -5, -3, -1, ...      3.  $1, \frac{5}{6}, \frac{2}{3}, \frac{1}{2}, \dots$       4. 12, 6, 3, ...

● **Lesson 11-2** Use the graph at the right for Exercises 5–7.

5. What is the rate for the first hour of parking?  
6. What is the cost to park for  $3\frac{1}{2}$  hours?  
7. What is the maximum cost to park for up to 12 hours?



● **Lesson 11-3** Use the function rule  $f(x) = 2x - 1$ . Find each output.

8.  $f(1)$       9.  $f(0)$       10.  $f(-3)$       11.  $f(\frac{1}{2})$

● **Lesson 11-4** Use the table to find the slope. Then graph the data and each line.

12. 

x	0	1	2	3	4
y	1	3	5	7	9

13. 

x	-2	0	2	4	6
y	10	7	4	1	-2

14. 

x	-4	-1	2	5	8
y	-5	0	5	10	15

● **Lesson 11-5** Make a table of input-output pairs for each function. Then graph the function.

15.  $y = 3x$       16.  $y = -2x + 3$       17.  $y = \frac{3}{5}x + 1$       18.  $y = 4$

● **Lesson 11-6** Do the data in each table represent a linear function? If so, write a rule for the function.

19. 

x	0	1	2	3	4
y	8	6	4	2	0

20. 

x	-3	-1	1	3	5
y	0	1	2	3	4

21. 

x	0	3	6	9	12
y	0	2	4	7	10

● **Lesson 11-7** Make a table and a graph for each quadratic function. Use integers from -4 to 4 for inputs.

22.  $y = x^2 + 2$       23.  $y = -2x^2$       24.  $y = 3x^2$       25.  $y = -x^2 + 3$