

CHAPTER 9

Extra Practice

Skills

- **Lessons 9-1 and 9-3** Graph the data in each table. In Exercise 3, first find the values of the variables.

1.

Hours of Study	Science Test Score
1	72
2	77
3	89
4	92

2.

Time (mo)	Savings (dollars)
2	125
4	295
6	420
8	625

3.

A	B
15	45
17	51
19	57
23	q
p	81

- **Lesson 9-2** Identify each sequence as *arithmetic*, *geometric*, or *neither*.

4. 7, 10, 13, 16, ...

5. 800, 400, 200, 100, ...

6. 50, 25, 48, 24, ...

- **Lesson 9-4** Write a rule for the function represented by each table.

7.

x	y
0	0
1	6
2	12
3	18

8.

x	y
0	-2
1	-1
2	0
3	1

9.

x	y
0	1
1	4
2	7
3	10

10.

x	y
0	10
1	8
2	6
3	4

- **Lesson 9-5** Graph each function. Use input values of 1, 2, 3, 4, and 5.

11. $y = x + 5$

12. $y = 8 - x$

13. $y = 2x^2$

- **Lesson 9-6**

14. On her trip to the library, Arlene walked two blocks to the bus stop in five minutes. She rode the bus for 15 min. The bus stopped three times for one minute each time. Sketch a graph to represent Arlene's trip.

- **Lesson 9-7** Find the balance in each compound interest account.

15. \$1,000 principal
5% annual interest rate
4 years

16. \$700 principal
4% annual interest rate
12 years

17. \$1,500 principal
5.5% annual interest rate
7 years

- **Lesson 9-8** Solve each equation for the variable in red.

18. $V = \ell wh$

19. $y = mx + b$

20. $P = 2\ell + 2w$