

Answers for Lesson 11-3, pp. 525–526 Exercises

- A function rule is an equation that describes a function.
- No; a function assigns exactly one output value to each input value.
- Always positive; the product of two negative numbers is always positive.

4. 4; 5; 6

5.

n	t
44	4
132	12
165	15

6.

m	p
2	5.50
6	13.50
13	27.50

7. 3

8. -1

9. 7

10. 23

11. -30.4

12. $E(h) = 0.4h$

13. \$48.33

14. yes

15. no

16. a. 240; the number of gallons of water used to wash 6 loads of laundry

b. ℓ ; the number of loads, which is the input, is the domain.

c. w

17. Answers may vary. Sample: $(0, -2)$, $(2, 4)$, $(7, 19)$; each solution (x, y) equals an input-output pair for the function

$$f(x) = 3x - 2; f(0) = -2,$$

$$f(2) = 4, f(7) = 19.$$

18.

Input x	Output y
5	20
7	28
9	36
11	44

19.

Input t	Output d
1	50
2	100
3	150
4	200

Answers for Lesson 11-3, pp. 525–526 Exercises (cont.)

20. \$3.50

21. a. 96, 92, 88, 84; arithmetic

b. 3, 4, 3, 0; neither

22. 69.5

23. 27

24. $4n$; 20, 24, 28

25. $-1n$; -5 , -6 , -7