

Answers for Algebra 1 Assignment 9

HW #39; WS 5-4

1. $f(x) = x + 3$
2. $f(x) = 3x$
- 4a. $C(p) = 0.39p$
 - b. \$1.37
- 5a. $C(n) = 50 + 10n$
 - b. \$110
6. $f(x) = \frac{1}{2}x$
7. $f(x) = x^2$
8. $f(x) = 20 - x$
- 9a. $N(b) = 12b$
 - b. 192 pens
- 11a. $P(n) = 9.50a - 209$
 - b. \$19.00
 - c. 22 shirts

HW #40 p.280-281

2. No
4. NO
6. Yes, $\frac{7}{3}$
8. Yes, 0.5
10. $y = 5x$
11. $y = \frac{1}{5}x$
12. $y = -\frac{5}{4}x$
13. $y = \frac{9}{5}x$
14. $y = -\frac{3}{2}x$
- 27a. 20/50; 0.4
- 27b. $f=0.4w$; 52 lb

WS 5-5

13. 4
15. 3
16. -3
26. yes; $y = \frac{2}{3}x$
27. no

HW #41; WS 5-6

1. $xy = 54$
2. $xy = 18$
3. $xy = \frac{1}{6}$
4. $xy = 91$
6. $xy = 3.92$
7. $xy = 484$
8. $xy = 76$
9. $xy = 10$
10. 10
11. 8
12. 16
14. $37 \frac{1}{3}$
15. 625
25. Inverse
26. Direct
- 36a. 5 m^3
 - b. 2 atm
 - c. 19.2 m^3

p. 288

27. Direct
28. Inverse
29. Inverse

HW #41A Review pp. 299-301

- 8-12. Answers vary
15. $\{-23, -7, -3, 13\}$
16. $\{1, 3, 3.5, 5.5\}$
17. $\{1, 2, 17, 26\}$
18. $\{-10, 2, 5, 17\}$
19. no
20. yes
21. yes
22. no
23. A relation is a function when each value of the domain corresponds to exactly one value of the range.

24. Should be a parabola that opens up and has a vertex at (0, -3)
25. A line with a downward slope crossing the y axis at -3
26. A V shape with a vertex at (0, -7)
27. A straight line with an upward slope crossing the y axis at 1.
28. $f(x) = x + 1$
29. $f(x) = -x$
30. $f(x) = x + 3.5$
31. a. $S^{\circ} = 0.1r$
 - b. continuous