

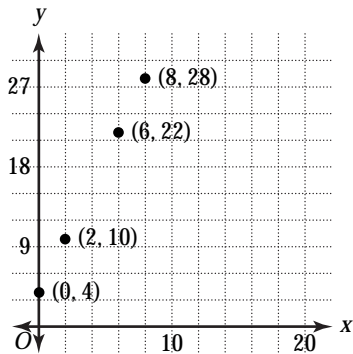
Answers

Lesson 1.4

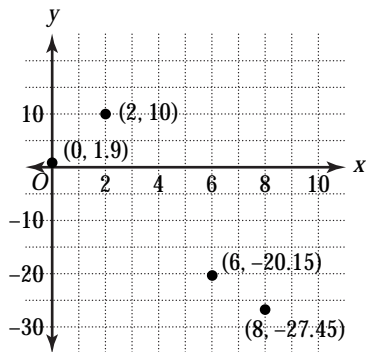
1. $k = -5; y = -5x$
2. $k = \frac{7}{3}; y = \frac{7}{3}x$
3. $k = -\frac{4}{3}; y = -\frac{4}{3}x$
4. $k = \frac{1}{4}; y = \frac{1}{4}x$
5. $k = \frac{2}{7}; y = \frac{2}{7}x$
6. $k = \frac{5}{6}; y = \frac{5}{6}x$
7. $k = 2; y = 2x$
8. $k = -3; y = -3x$
9. $x = 3$
10. $x = 4$
11. $y = \frac{9}{2}$
12. $x = 10$
13. $z = \frac{5}{2}$
14. $y = -\frac{5}{4}$
15. $x = -1$
16. $z = \frac{1}{3}$
17. yes; $y = 3x$
18. no; there is no constant, k , such that $y = kx$
19. yes; $y = 2x$

Lesson 1.5

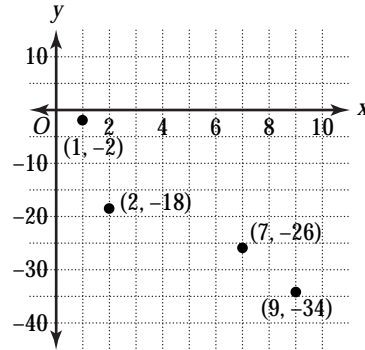
1. $y = 3x + 4$; positive



2. $y \approx -4.44x + 8.85$; negative



3. $y \approx -3.26x - 4.5$; negative



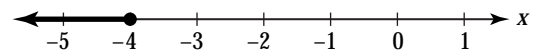
4. $y = 0.01x + 0.24$
5. $r \approx 0.96$
6. 0.360

Lesson 1.6

1. $x = 2$
2. $x = 5$
3. $x = 9$
4. $x = 6$
5. $x = 8$
6. $x = \frac{7}{8}$
7. $x = -2$
8. $x = -3$
9. $x = \frac{1}{2}$
10. $x = 2$
11. $x = 16$
12. $x = -21$
13. $x = -\frac{1}{3}$
14. $x = 7$
15. $x = -\frac{1}{3}$
16. $x = -\frac{6}{5}$
17. $x = 18$
18. $x = -\frac{5}{22}$
19. $x = -4$
20. $x = -6$
21. $x = -\frac{6}{7}$
22. $x = \frac{1}{2}$
23. $W = \frac{V}{LD}$
24. $r = \frac{C}{2\pi}$
25. $P_1 = \frac{V_2 P_2}{V_1}$
26. $q_p = \frac{q}{D \times Q}$
27. $a = \frac{T_0 - T}{z - z_0}$
28. $h = \frac{A}{a + b}$

Lesson 1.7

1. $x \geq -3$
2. $x > 2$
3. $x \leq 2$
4. $x \leq -4$



5. $x \leq 1$

