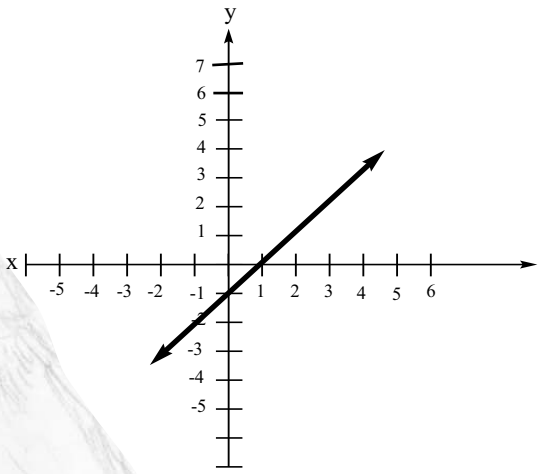
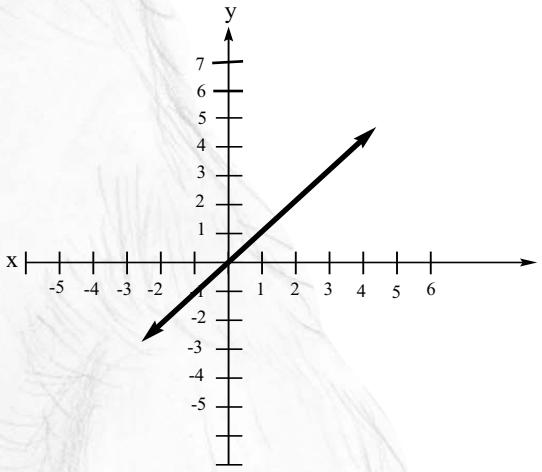
Quiz 5-1 Answer Key

1. independent
2. depends
3. D: {1, 2, 4, 6}
4. R: {2, 3, 5, 7}
5. D: {1, 2, 3, 4}
6. R: {5}
7. D: {4, 11, 14, 16}
8. R: {3, 7, 12, 15}
9. Domain, D: $\{x \mid 0 \leq x \leq 3\}$
10. Range, R: $\{y \mid 0 \leq y \leq 2.5\}$
11. Domain, D: $\{x \mid 0 \leq x \leq 3\}$
12. Range, R: $\{y \mid 0 \leq y \leq 4\}$
13. Domain, D: $\{x \mid -\infty < x \leq \infty\}$
14. Range, R: $\{y \mid -\infty < y \leq 7\}$
15. Domain, D: $\{x \mid -\infty < x < \infty\}$
16. Range, R: $\{y \mid -\infty < y < \infty\}$
17. Domain, D: $\{x \mid 3 \leq x \leq 5\}$
18. Range, R: $\{y \mid 1 \leq y \leq 6\}$
19. Yes
20. Yes
21. not a function
22. function
23. not a function
24. not a function
25. function
26. not a function
27. (-1, 3), (0, 4), (1, 5), (2, 6), (3, 7), (4, 8)
28. (-1, -5), (0, -2), (1, 1), (2, 4), (3, 7), (4, 10)
29. (-1, 3), (0, 5), (1, 7), (2, 9), (3, 11), (4, 13)
30. (-1, -16), (0, -15), (1, -14), (2, -13), (3, -12), (4, -11)
31. (-1, -5), (0, -3), (1, -1), (2, 1), (3, 3), (4, 5)

32. $y = x - 1$

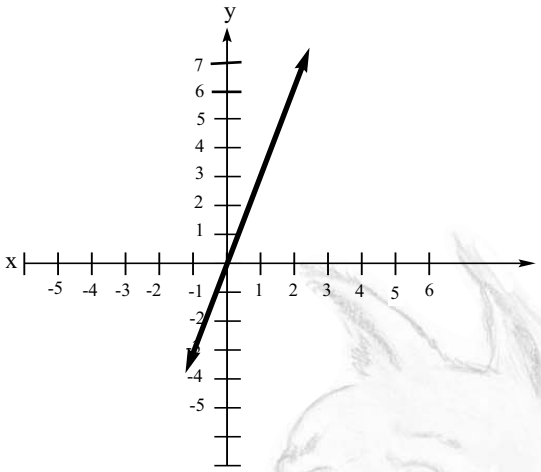


33. $y = x$

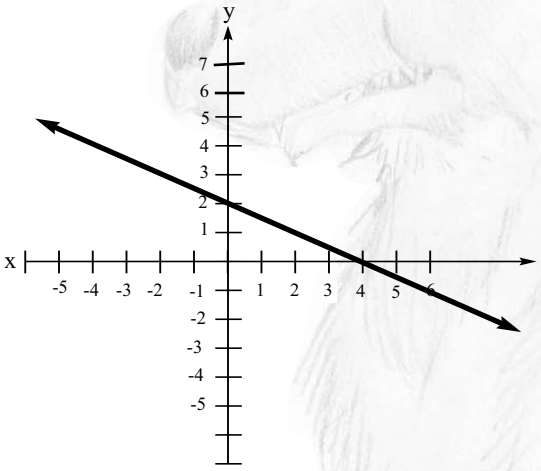


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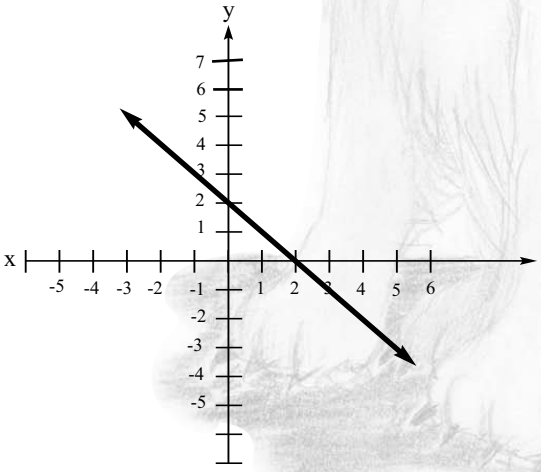
34. $y = 3x$



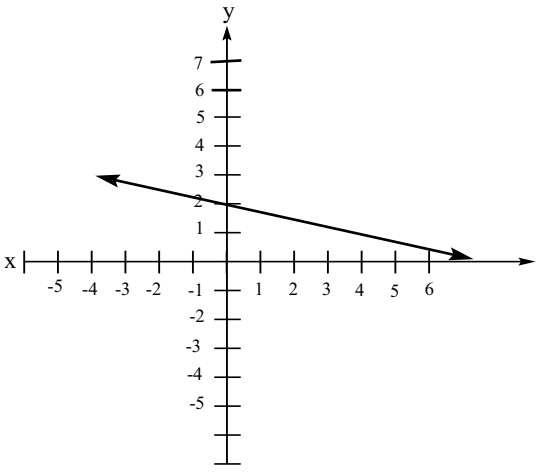
35. $y = -\frac{1}{2}x + 2$



36. $y = -x + 2$



37. $y = -\frac{1}{4}x + 2$



38. (4, 5, 10) (answers may vary)
39. (2, 3, 11) (answers may vary)
40. (2, 1, 12)
41. (6, 3, 20)
42. $V = 108$ cubic units
43. e
44. d
45. b
46. c
47. a

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