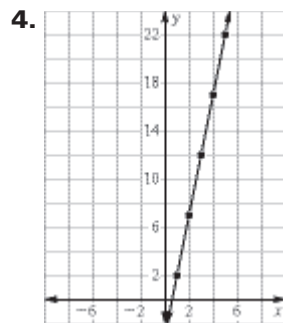


Answer Key

Review and Project

Cumulative Review

1. $8x = 32$ 2. $3(y + 8)$ 3. $10 - z^2 < 18$

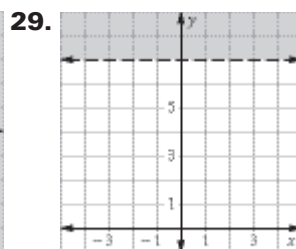
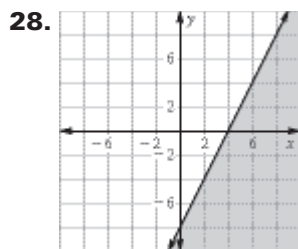


5. 7 6. -11 7. -10 8. 13 9. 3 10. -2 11. 6 12. 4 13. 9 14. 56%

15. $m = \frac{4}{3}, b = -1$ 16. $m = \frac{5}{3}, b = -10$ 17. $m = 6, b = -3$ 18. yes; 2 19. no

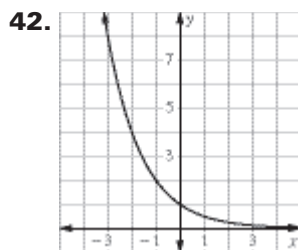
20. yes; $\frac{1}{4}$ 21. $y = 5x - 2$ 22. $y = x + 5$ 23. $y = \frac{1}{2}x + 2$ 24. $y = 7x - 3$

25. $x < -7$ 26. $x < 2$ 27. $x > 7.5$ or $x < -6.5$



30. (2, 8) 31. (-1, 7) 32. (-2, 7) 33. no solution 34. one solution 35. infinitely many solutions 36. $(-3)^{11}$ 37. $-121x^6$

38. $\frac{1}{4m^6n^4}$ 39. $128a^3b^3$ 40. 1.9321×10^7 41. 0.000321



domain: all real numbers; range: all positive real numbers

43. $16h^3 + 2h^2 - 7h$ 44. $14k^2 - 10k + 3$

45. $w^3 + 7w^2 + 4w - 12$ 46. $6y^2 - 5y - 21$

47. $25x^2 - 90x + 81$ 48. $(k - 12)(k - 3)$

49. $3m(m + 6)(m - 2)$ 50. $-2(a + 6)(a - 6)$