

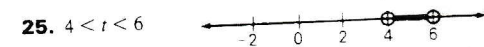
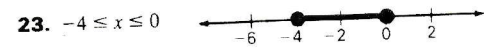
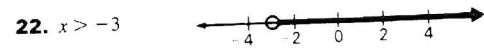
3. $64x^{16}y^5$ 4. 51 5. $\frac{b^2 - 11b - 8}{b(b + 1)}$ 6. $\frac{2}{3}$ 7. $6\sqrt{5}$ 8. $12st^2\sqrt{t}$

9. $5\sqrt{7}$ 10. $\frac{6}{5}x^3$ 11. Alice, $3x + 7$; Archie, $x + 7$

12. 30 cm \times 54 cm 13. $(3x - 2)(x + 1)$ 14. prime 15. prime

16. prime 17. $-(3y + 1)(16y - 15)$ 18. $(3c + 4d)(c - 3d)$

19. 63 20. $3\frac{1}{2}h$ 21. $\frac{4x - 4}{12}, \frac{3x}{12}, \frac{6}{12}$



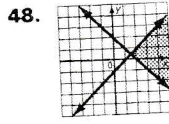
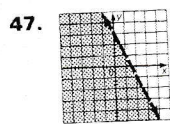
26. 6.8 27. 9.7 28. $\frac{1}{2}t$ 29. $x = 7$ 30. $x = 11$ 31. $y = \frac{4}{3}$

32. $y < \frac{20}{9}$ 33. $t = 4$ or $t = -4$ 34. $t = -3$ 35. $t > 2\frac{1}{2}$

36. $x = -7$ or $x = 1$ 37. $x = 17, y = -10$ 38. $x = 1, y = -1$

39. $3y - 14 + \frac{57}{y + 4}$ 40. 42, 40 41. no real-number roots

42. one real-number root 43. 14 44. 0.72 45. $0.8\bar{6}$ 46. $1.\bar{4}$



49. $110 + 7\sqrt{35}$ 50. 18 51. $70 - 20\sqrt{10}$ 52. $\frac{2}{3}$

53. $24\sqrt{3} - 15\sqrt{2}$ 54. $3\sqrt{5}$ 55. $x + y = -2$ 56. $t = -1$ or $t = -\frac{2}{3}$

57. $z = \frac{7 + \sqrt{17}}{4}$ or $z = \frac{7 - \sqrt{17}}{4}$

58. $4\frac{1}{3}$ 59. -2 60. $9a^2c^2$ 61. 3^6 , or 729

62. $6 - \sqrt{3}, 6 + \sqrt{3}$