

- Answer
1. 3
 2. $-3/2$
 3. $-y^3 + 11y^2 - 10y + 11$
 4. $3a^2 - 4a - 7$
 5. -3
 6. $x=0$
 7. $x=13$
 8. $t=-39$
 9. $x > \frac{-5}{3}$
 10. $6x^2 - 13x - 5$
 11. $4x^2 - 12x + 9$
 12. $\frac{-b}{3}$
 13. $P=6x+8$
 $A=2x^2 + x - 21$
 14. $5x^2 - 3x + 4 + \frac{1}{x}$
 15. g^3
 16. $\frac{4^5 x^{15}}{y^{10}}$
 17. $2^4 x^{12} y^4$
 18. 1
 19. $x=3$
 20. 6 ft and 18 ft.
 21. $6ab^2(4b^2 + 2b - 3)$
 22. $7ab^3(\frac{1}{2} + 3a - 4b^2)$
 23. $(7x+5y)(3x-2y)$
 24. $(7b+3c)(t-1)$
 25. $(2x+1)(x-3)$
 26. $3(x+5)(x-2)$
 27. $(9r+11m)(9r+11m)$
 28. $(12m-5n)(12m+5n)$
 29. Prime
 30. $-1(3ab-2k+7)$
 31. $5(m-3)(m-4)$
 32. prime
 33. $k = \frac{5}{4} \text{ or } \frac{-2}{3}$
 34. $x=7$ or -2
 35. $k=1$ or 10
 36. $b=8$ or -3
 37. 4 seconds
 38. 6m, 8m, 10m
 39. $(3a^2 - 8b^2)(3a^2 + 8b^2)$
 40. 4 ft x 6 ft
 41. $\frac{3}{7}$
 42. $\frac{18x^3}{y^4}$
 43. $\frac{z^2}{9x^2}$
 44. $3(y-2)$
 45. $\frac{2x+10}{5x}$
 46. $\frac{6+9z}{z^2}$
 47. $\frac{10x^2 + 21xy}{18y}$
 48. $\frac{-5a-12}{8a}$
 49. $\frac{-2f-11}{5}$
 50. No solution
 $W=0$
Extraneous root

51. $t=3$
 52. $5\frac{5}{6}$ days

53. \$15
 54. 54 feet
 55. $x=-4$

56. $y=8$
 57. $t=25$

58. $\frac{3}{2}$

59. $\frac{3a^2}{b}$

60. no

61.

x	y
-4	2
-3	1
-2	0
4	6

62.

x	y
-6	36
-3	9
1	1
4	16

63. $y=4x$
 64. $m=2$
 65. See graphs below
 66. See graphs below

67. $f(0)=-1$
 $f(-2)=-9$
 $f(5)=19$
 68. $g(-1)=1$
 $g\left(\frac{1}{2}\right)=\frac{7}{4}$ $g(-5)=-23$

69. $m=5/2$

76. 177 senior citizens
 77. b.

78. (5,2)

79. 13

80. $2\sqrt{7}$

81. $x\sqrt{x}$

82. $5xy\sqrt{3y}$

83. $\frac{6q^2\sqrt{2}}{5}$

84. $7\sqrt{10}$

85. $5\sqrt{5}$

86. $-y\sqrt{3xy}$

87. $\sqrt{35}$

88. $8-2\sqrt{2}$

89. -6

90. $5a+\sqrt{5a}-6$

91. $f(4)=6$

$f(-4)$ does not exist

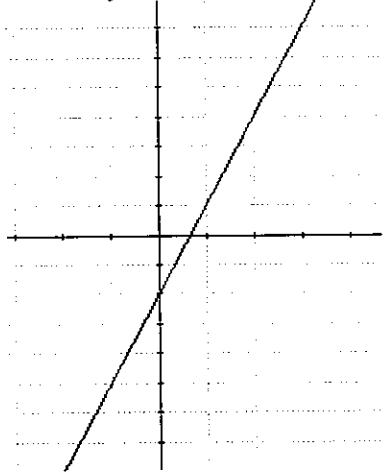
92. 5.6 ft.

93. $\frac{121}{2}$ or 60.5

94. 9

70. $(0, -4)$
 $y = -5x + 12$
71. Perpendicular b/c their slopes are negative reciprocals of each other
72. $(-8, 1)$
73. $(3, -1)$
74. Infinite number of solutions
75. $10x + 14 = \$20$
 $8x + 10 = \$11$
95. $\pm 4\sqrt{3}$
96. $8, -2$
97. $5 + 2\sqrt{10}, 5 - 2\sqrt{10}$
98. $-2, -6$
99. $2 \pm \sqrt{11}$
100. $1, \frac{3}{5}$
101. No real solution

65. $3x - y = 2$



66. $y = 1/2x$

