

Section 2.1

56. $-3 = y$
60. $x = 10$
62. No solution
84. 312, 314
86. The repair work took 2 hours.
92. 11 meters, 21 meters

Section 2.3

62. 20 minutes
80. 4 feet
82. 8 inches, 24 inches

Section 3.6

42. 10 , $-\frac{1}{2}$, $-7t + 20$, $24 - 14t$
44. 0 , 0 , -25 , $16t^2 - 8t$
50. $\frac{1}{6}$, $-\frac{1}{9}$, 8 , $\frac{x-3}{x-8}$
86. $A(x) = (32 - 2x)^2$

Section 5.2

70. $x^2 + 2x$
78. $-9x^3 - 7x^2 + 19x$
80. $-5\nu - 1$

Section 5.3

22. $3x^2 - 11x - 4$
24. $12x^2 + 49x + 49$
26. $-12x^3 + 54x^2 - 4x + 18$
100. $V(n) = 8n^3 - 8n$; 480 cubic inches; $A(n) = 4n^2 - 4$
102. $A = 3x^2 - 2x + 6$
104. $A = \frac{5}{2}x^2 + \frac{25}{2}x$

Section 5.6

18. $x = \frac{5}{8}, x = 0$

30. $x = -\frac{1}{7}, x = -\frac{1}{2}$

96. The numbers are 11 and 12.

98. The width of the frame is 1 centimeter.

100. The base of the triangle is 14 inches and the height is 10 inches.

Section 6.6

24. $-\frac{4}{5} = u$

32. $x = \frac{4}{5}$

Section 8.1

10. $x = \frac{3}{4}, x = \frac{1}{2}$

18. $u = -4, u = -1$

Section 8.5

16. 24 inches, 16 inches