

Answers to Summer Work

1. -6
2. 8
3. 2
4. No solution
5. 11
6. $\frac{-1}{4}$
7. 8
8. 32
9. $y = \frac{3}{2}$
10. $n = 5$
11. $p = 0$
12. $r = \frac{-2}{3}$
13. $a = 10$
14. 605 ft
15. $r = \frac{d}{t}$
16. $y = \frac{-ax - c}{b}$
17. $2A - f = e$
18. $\sqrt[3]{\frac{3V}{4\pi}} = r$
19. $b = \sqrt{c^2 - a^2}$
20. $\frac{V}{\pi r^2} = h$
21. 2
22. 0
23. $\frac{1}{2}$
24. $X = 3$
25. $\frac{-5}{4}$
26. $\frac{7}{2}$ or 3.5
27. $y = 3x + 5$
28. $y = \frac{-2}{3}x + \frac{8}{3}$
29. $y = 6x + 25$
30. $y = \frac{-1}{2}x + 3$
31. $\parallel \text{slope} = \frac{2}{3} \perp \text{slope} = \frac{-3}{2}$
32. $\parallel \text{slope} = \frac{-3}{4} \perp \text{slope} = \frac{4}{3}$
33. $\parallel \text{slope} = \frac{-7}{3} \perp \text{slope} = \frac{3}{7}$
34. $\parallel \text{slope} = \frac{1}{3} \perp \text{slope} = \frac{-3}{1}$ or -3
35. $y - 6 = 4(x - 5)$
36. $y - 2 = -3(x - 7)$

37. $y = -x + 3$
38. $y = \frac{5}{2}x - 5$
39. b and c are perpendicular
40. $\parallel = y = 6x + 25$
 $\perp = y = \frac{-1}{6}x - \frac{35}{6}$
41. (2,7)
42. (0,4)
43. (-1,1)
44. (-2,5)
45. $7x^2 + 11y^2$
46. $-11k^2 - 7k + 11$
47. $-4x^3 + 20x^2 - 28x$
48. $y^2 - 11y + 28$
49. $x^2 - 8x + 16$
50. $25x^2 + 20x + 4$
51. $x^2(12x - 5)$
52. $6(x^2 - 3x + 1)$
53. $(x + 7)(x + 4)$
54. $(8x + 1)(8x - 1)$
55. $(2x + 1)(x - 3)$
56. $(3x - 4)(x - 5)$
57. $10\sqrt{2}$
58. $3\sqrt{5}$
59. 13
60. $\frac{4}{9}$
61. ≈ 8.5
62. ≈ 9.2
63. Supplementary
64. Vertical
65. Adjacent
66. Complementary
67. 18°
68. 30°
69. 38m
70. 32.7km
71. 42.35 km^2
72. 16.56 in^2
73. 15.4 m^2
74. $\approx 78.65 \text{ cm}^2$
75. $P = 2(2x) + 2(3x + 2)$ $A = 2x(3x + 2)$
76. $b \approx 13.8$
77. $C \approx 88 \text{ in}$
78. $A \approx 615.8 \text{ in}^2$

79. ≈ 6.3

80. ≈ 6.7

81. 3

82. 3

83. $LA=216m^2$ $SA=556m^2$ $V = 680m^3$

84. $LA=31.5yd^2$ $SA=236.25yd^2$ $V = 22.45yd^3$

85. $LA\approx 37.7in^2$ $SA\approx 62.8in^2$ $V = 37.7in^3$

86. $LA=\text{same as}$ $SA\approx 50.3m^2$ $V = 33.5m^3$

87. $LA\approx 31.32 yd^2$, $SA \approx 40.32 yd^2$, $V \approx 15 yd^3$

88. $LA\approx 19.8m^2$ $SA\approx 23m^2$ $V = 3.1m^3$

89. $F'(3,2)$ $W'(-1,2)$ $X'(0,-3)$

90. $W'(0,3)$ $V'(0,2)$ $X'(4,3)$ $C'(2,-2)$

91. $U'(1,-5)$ $T'(0,-2)$ $S'(4,-4)$

92. $G'(-3,-2)$ $F'(-2,-1)$ $E'(0,3)$ $H'(2,2)$

93. $T'(2,1)$ $U'(5,3)$ $V'(5,5)$

94. $S'(-2,0)$ $T'(-1,-3)$ $R'(-4,-4)$

95. $V'(0,5)$ $U'(2.5,5)$ $W'(0,-2.5)$

96. $T'(-1,5)$ $U'(1.5,1.5)$ $V'(1,-1)$ $S'(-.5,-.5)$