

# Answer Key

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## Practice C

1.  $y = 2(x - 1)^2 + 3$     2.  $y = -3(x + 6)^2 - 2$

3.  $y = \frac{1}{3}(x - 2)^2 - 5$     4.  $y = \frac{2}{5}(x + 3)^2 + \frac{1}{2}$

5.  $y = -(x - \frac{1}{3})^2 + 5$     6.  $y = \frac{2}{3}(x + \frac{1}{2})^2 + \frac{3}{2}$

7.  $y = 2(x - 7)(x + 6)$

8.  $y = -\frac{1}{3}(x - 4)(x - 2)$

9.  $y = \frac{1}{4}(x + \frac{1}{2})(x + 3)$

10.  $y = -\frac{6}{5}(x - \frac{3}{4})(x + \frac{1}{2})$

11.  
 $y = 4(x - \frac{3}{5})(x - \frac{5}{8})$     12.  $y = -\frac{7}{3}x(x + \frac{2}{7})$

13.  $y = 7x^2 - 21x + 27$     14.  $y = -x^2 + 3x + 1$

15.  $y = \frac{1}{2}x^2 + 2x + 5$     16.  $y = -\frac{3}{4}x^2 + x - \frac{1}{4}$

17.  $y = -2x^2 + \frac{1}{3}x + 6$

18.  $y = 3x^2 - 5x + \frac{3}{8}$     19.  $y = x^2 + 6x - 9$

20.  $y = 3x^2 + \frac{2}{3}$     21.  $y = -2x^2 + 3x$

22.  $F = 0.498t^2 - 22.103t + 768.941$

23.  $A = 3.142r^2; 3.142$