

# ANSWERS FOR 5.8

For use with pages 309–312

## 5.8 Guided Practice

2. 2; 3

4.  $y = 2(x + 1)(x - 2)$

6.  $p = 1.83t^2 - 19.55t + 172.73$

## 5.8 Practice and Applications

8.  $y = -2(x + 1)^2 + 4$

10.  $y = (x - 2)^2 - 1$

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

14.  $y = 4(x - 1)^2 - 10$

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

18.  $y = -(x + 0)(x - 4)$

20.  $y = \frac{2}{3}(x + 2)(x - 2)$

22.  $y = -5(x + 10)(x + 8)$

24.  $y = -3(x + 0)(x + 5)$

26.  $y = 2x^2 - 15x + 29$

28.  $y = x^2 - x + 3$

30.  $y = 3x^2 + 7x + 1$

32.  $y = -0.25x^2 + x + 1.25$

34.  $h = \frac{24}{49}(s - 27)^2 + 16$

36.  $t = 0.0119s^2 - 0.3086s - 0.0005$

38. a.  $d = -0.0771A^2 + 6.5803A + 2.4614$

b.  $d = -0.0738A^2 + 6.4304A + 0.6928$

c.  $d = -0.07A^2 + 6.2284A - 0.2623$

40.  $R; 1; 2; 4; 7; 11; 16; 22$

$$R = 0.5n^2 + 0.5n + 1$$

## 5.8 Mixed Review

42. 32

44. 4

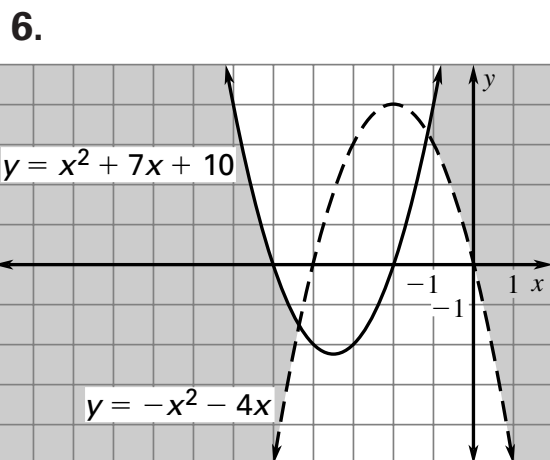
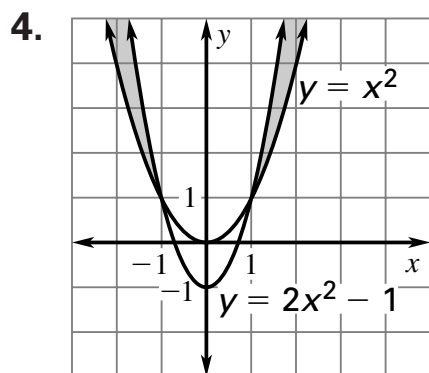
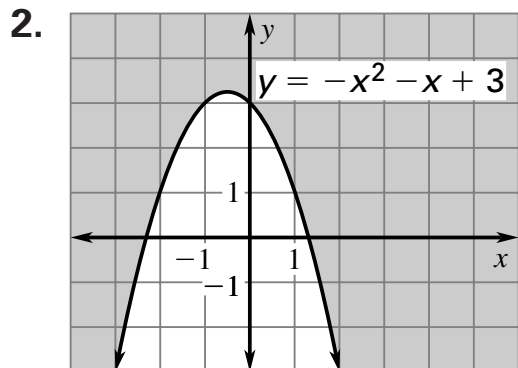
46. (1, 2)

48.  $C = 1800 + 15v + 10p$

# ANSWERS FOR 5.8 (CONT.)

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## Quiz 3



8.  $y = -1(x + 3)(x - 1)$

10.  $0.00339N^2 + 0.00143N - 5.95 < 1000; 0 < N < 544$