

7.5 Notetaking with Vocabulary (continued)**Extra Practice**

In Exercises 1–12, factor the polynomial.

1. $c^2 + 8c + 7$

2. $a^2 + 16a + 64$

3. $x^2 + 11x + 18$

4. $d^2 + 6d + 8$

5. $s^2 + 11s + 10$

6. $u^2 + 10u + 9$

7. $b^2 + 3b - 54$

8. $y^2 - y - 2$

9. $u^2 + 3u - 18$

10. $z^2 - z - 56$

11. $h^2 + 2h - 24$

12. $f^2 - 3f - 40$

7.5 Notetaking with Vocabulary (continued)

In Exercises 13–18, solve the equation.

13. $g^2 - 13g + 40 = 0$

14. $k^2 - 5k + 6 = 0$

15. $w^2 - 7w + 10 = 0$

16. $x^2 - x = 30$

17. $r^2 - 3r = -2$

18. $t^2 - 7t = 8$

19. The area of a right triangle is 16 square miles. One leg of the triangle is 4 miles longer than the other leg. Find the length of each leg.

20. You have two circular flower beds, as shown. The sum of the areas of the two flower beds is 136π square feet. Find the radius of each bed.

