

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

In Exercises 1–18, factor the polynomial.

1. $2c^2 - 14c - 36$

2. $4a^2 + 8a - 140$

3. $3x^2 - 6x - 24$

4. $2d^2 - 2d - 60$

5. $5s^2 + 55s + 50$

6. $3q^2 + 30q + 27$

7. $12g^2 - 37g + 28$

8. $6k^2 - 11k + 4$

9. $9w^2 + 9w + 2$

10. $12a^2 + 5a - 2$

11. $15b^2 + 14b - 8$

12. $5t^2 + 12t - 9$

7.6 Notetaking with Vocabulary (continued)

13. $-12b^2 + 5b + 2$

14. $-6x^2 + x + 15$

15. $-60g^2 - 11g + 1$

16. $-2d^2 - d + 6$

17. $-3r^2 - 4r - 1$

18. $-8x^2 + 14x - 5$

19. The length of a rectangular shaped park is $(3x + 5)$ miles. The width is $(2x + 8)$ miles. The area of the park is 360 square miles. What are the dimensions of the park?

20. The sum of two numbers is 8. The sum of the squares of the two numbers is 34. What are the two numbers?