

Basic Practice 4

FOR USE WITH LESSON 10.4

In Exercises 1–6, find the greatest common factor of the three terms.

1. $4x^2, 8x, 6$

2. $9x^3, 6x^2, 5x$

3. $8x^3, 12x^2, 4x$

4. $40x^3, 80x, 30x^2$

5. $18y^3, 12xy^2, 30x^2y$

6. $5x^2y, 9xy^2, xy$

In Exercises 7–15, factor out the greatest common monomial factor.

7. $10x - 15$

8. $9 - 12x$

9. $26x^2 - 2$

10. $4x^2 + 8$

11. $-9x - 3x^2$

12. $16x^2 - 8x$

13. $16x^2 + 8x - 12$

14. $27x^3 + 9x^2 + 3x$

15. $15x^4 - 10x^3 - 5x^2$

In Exercises 16–24, factor the expression.

Remember:

When factoring an expression, first factor out any common monomial factor. Then look for a special-product pattern.

16. $x^2 - 25$

17. $x^2 - 100$

18. $y^2 - 81$

19. $4x^2 - 49$