

# SKILLS PRACTICE 25

For use with Section 3-4

Like Terms and Common Factors

NAME \_\_\_\_\_

DATE \_\_\_\_\_

Simplify by distributing and combining like terms.

1.  $3 - (x - 4)$  \_\_\_\_\_

2.  $5x - x + 3(x + 5)$  \_\_\_\_\_

3.  $4 - 4x(x + 6) - 8$  \_\_\_\_\_

4.  $5(x + 3) - 3x(2x - 8)$  \_\_\_\_\_

5.  $4x^2 - 3x^2 + 5x - x^2 - 1$  \_\_\_\_\_

6.  $5 - 6x(5 - x) + 4(x + 3)$  \_\_\_\_\_

7.  $4x^2 - 3x + 7 + 6x^2 + 7x - 9$  \_\_\_\_\_

8.  $2(3x^2 + 5x - 3) - (x^2 - 6x + 7)$  \_\_\_\_\_

9.  $5(x - 3) + 5x(4x - 5)$  \_\_\_\_\_

10.  $8x - (x^2 - 8x) + 8$  \_\_\_\_\_

11.  $x^3 + y^3 - 4x^2 + 8x^2 - 5x + 6x + 9$  \_\_\_\_\_

12.  $8(x - 9) - 4(3x - 6)$  \_\_\_\_\_

13.  $4x^2 - (5x^2 - 8x) + 9x$  \_\_\_\_\_

14.  $(3x - 8) \cdot (-3) - (3x - 6)$  \_\_\_\_\_

15.  $8 - (7 - x) + 3x - 9$  \_\_\_\_\_

16.  $x(2y + 3) - 5xy + 7x$  \_\_\_\_\_

17.  $y(x + 4) + 4(y - 8)$  \_\_\_\_\_

18.  $3x(3x + 5) + 5(3x + 5)$  \_\_\_\_\_

19.  $x(x - 5) + 5(x - 5)$  \_\_\_\_\_

20.  $5x(5x + 2) - 2(5x + 2)$  \_\_\_\_\_