

SKILLS PRACTICE 67

NAME _____

Review Chapter 7

Expressions and Equations Containing Two Variables

DATE _____

For each of the following systems of equations:

- solve by graphing.
- solve by substitution.
- solve by linear combination (addition-subtraction method).

1. $2x - y = -3$
 $3x + y = -2$ _____

2. $x + 3y = 6$
 $2x - 3y = 3$ _____

2. $5x - 2y = -10$
 $x + 2y = -2$ _____

4. $y = 3x + 8$
 $y = -\frac{2}{3}x - 3$ _____

5. $3x - 2y = -6$
 $x + y = 3$ _____

Simplify.

6. $2x - (3x - 5) + (x + 1)^2$ _____

7. $3x^2 - 2x + 7 - x^2 + 3x + 5$ _____

8. $\frac{4x - 6}{3}$ _____

9. Evaluate $\left(\frac{2}{3}\right)x - \left(\frac{1}{2}\right)y$ if

a. x is 6 and y is 4 _____

b. x is 4 and y is -5 _____

10. For the 2 integers 12 and 18,

a. What is the greatest common factor? _____

b. What is the least common multiple? _____