Algebra Chapter 7 Practice Quiz

Work together. There are very few questions, so please do your best with your partners to get each problem solved. Please ask questions any time you get stuck - no reason to be embarrassed!

Find the solution to the system by graphing. Use a straight edge to draw straight lines.

1. $x + y = 1$
   $3x - y = -5$

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

Use substitution to solve the linear system.

3. $x + 4y = -1$
   $2x - y = 7$

4. $3x - y = 15$
   $x + 2y = -2$

5. $x - 4y = 6$
   $2x + y = -4$

Solve by linear combinations.

6. $3x - 4y = 21$
   $4x + 2y = 6$

Solve by linear combinations.

7. $4x + 3y = -2$
   $3x + 2y = -3$

8. $3x + 2y = -5$
   $4x - 3y = 16$

Solve the linear system by any method.

9. $3x - 2y = 3$
   $6x + 2y = 3$

10. $5x - 2y = 3$
    $-x + 6y = -2$

11. Determine if the system has no solutions, one solution, or many solutions.
    $3x - y = -13$
    $3x - y = -13$

12. Find the solution of the system, if it exists.
    $7x - y = 8$
    $-7x + y = 4$