Algebra 2
6.1 Solving Systems by Graphing Worksheet

Solve each system by graphing.

1.) \( y = x - 4 \)
\( y = 3x - 4 \)

2.) \( y = -3x + 3 \)
\( y = 2x - 7 \)

3.) \( y = \frac{3}{4}x - 5 \)
\( 3x - 4y = 20 \)

4.) \( -x + y = 3 \)
\( y = -4x - 2 \)

5.) \( y = -3x + 2 \)
\( y = 2x - 3 \)

6.) \( y = -4x - 6 \)
\( -x + y = 9 \)

Solve each system by graphing. Tell whether the system has one solution, infinitely many solutions, or no solution.

7.) \( 5x + y = -5 \)
\( 10x + 2y - 10 = 0 \)

8.) \( y + 2x = 7 \)
\( 2y - 1 = -4x + 13 \)

9.) \( 18x - 3y = 21 \)
\( 6x - y = 7 \)
10.) Can there be more than one point of intersection between the graphs of two linear equations? Why or why not?

11.) If the graphs of the equations in a system of linear equations coincide with each other, what does that tell you about the solution of the system? Explain.

12.) If the ordered pair (3, -2) satisfies one of the two linear equations in a system, how can you tell whether the point satisfies the other equation of the system? Explain.