

# Solving Systems of Equations by Graphing - Practice Worksheet

Name: \_\_\_\_\_ Date: \_\_\_\_\_

**Instructions:** Graph each system of equations on the coordinate plane provided. Write the solution as an ordered pair  $(x, y)$ , or state 'no solution' or 'infinitely many solutions' where applicable.

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

.....

2.  $y = 2x$  and  $y = x + 3$

.....

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

.....

4.  $y = 3x - 1$  and  $y = x + 3$

.....

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

.....

6.  $y = (1/2)x + 1$  and  $y = 2x - 2$

.....

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

.....

8.  $y = -x + 5$  and  $y = 2x - 1$

.....

9.  $2y = 4x + 6$  and  $y = 2x + 3$

.....

10.  $y = (1/3)x + 2$  and  $y = -x + 6$

.....

11.  $y = 3x - 4$  and  $y = -2x + 6$

.....

12.  $y = (2/3)x - 1$  and  $y = -x + 4$

.....

## Answer Key

1.  $(1, 2)$

2.  $(3, 6)$

3.  $(3, 1)$

4.  $(2, 5)$

5.  $(2, 2)$

6.  $(2, 2)$

7. no solution (parallel lines)

8.  $(2, 3)$

**9.** infinitely many solutions (same line)

**10.** (3, 3)

**11.** (2, 2)

**12.** (3, 1)