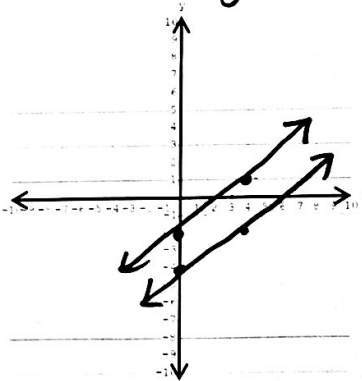


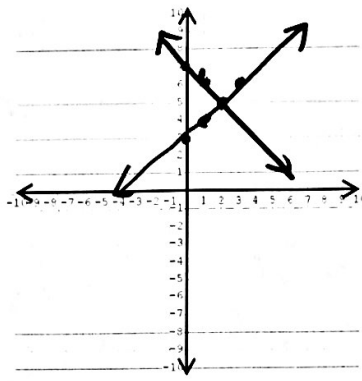
Graph each system of equations. Then determine whether the system has no solution, infinitely many solutions or one solution. If the system has one solution, name it. Write the answer on the answer line below the graph.

1) $3x - 4y = 8$ $y = \frac{3}{4}x - 2$
 $3x - 4y = -16$ $y = \frac{3}{4}x - 4$



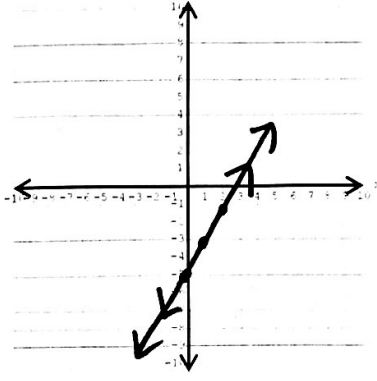
1) ∅

2) $-x + y = 3$ $y = x + 3$
 $2x + 2y = 14$ $y = -x + 7$



2) (2, 5)

3) $2x - y = 5$ $y = 2x - 5$
 $4x - 2y = 10$ $y = 2x - 5$



3) ℝ

4) Solve the system of equations by SUBSTITUTION.

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

5) Solve the system of equations by ELIMINATION.

$2x - 15y = -10$
 $-4x + 5y = -30$

4) (1, 1/2)

5) (10, 2)

Solve each system of equations by the method of your choice.

6) $x + y = 3$
 $x + 2y = 4$

7) $4x - 3y = -13$
 $5x + 2y = 1$

6) (2, 1)

7) (-1, 3)

Solve each of the following word problems by first writing a system of equations.

8) Charlie is three years younger than twice Alan's age. Together they are 39 years old. How old is each person?

Equation 1: $a + c = 39$

Charlie's age 25

Equation 2: $c = 2a - 3$

Alan's age 14

9) The sum of two numbers is 41 and their difference is 5. What are the numbers?

Equation 1: $x + y = 41$

18

Equation 2: $x - y = 5$

23