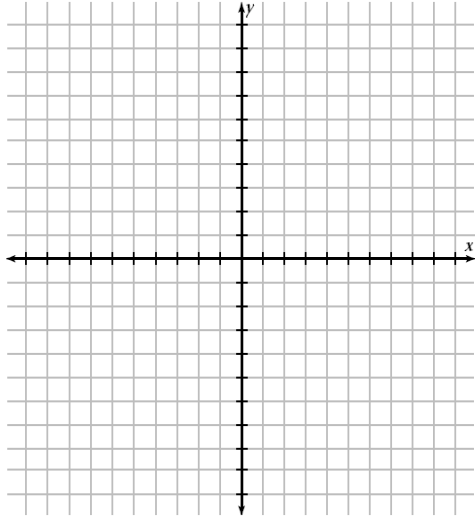


Unit 4: Solving a System of Linear Equations

Day 6 Quiz Study Guide

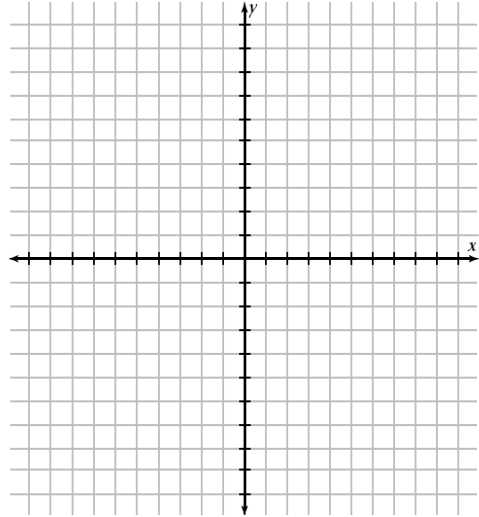
Directions. Solve the systems of equations by graphing. If there is no solution or infinitely many solutions, state this.

1)
$$y = -\frac{1}{3}x$$
$$y = x + 4$$



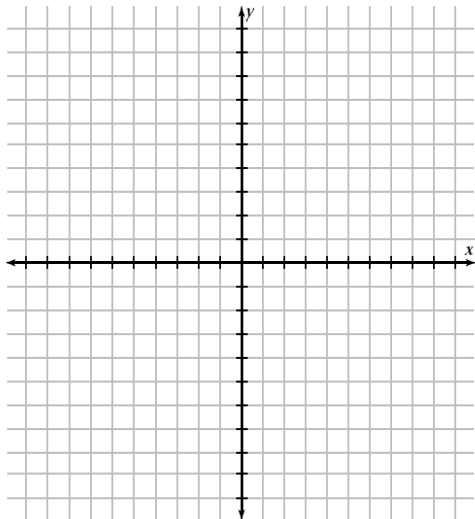
Solution: (,)

2)
$$y = 3x - 5$$
$$y = -\frac{3}{2}x + 4$$



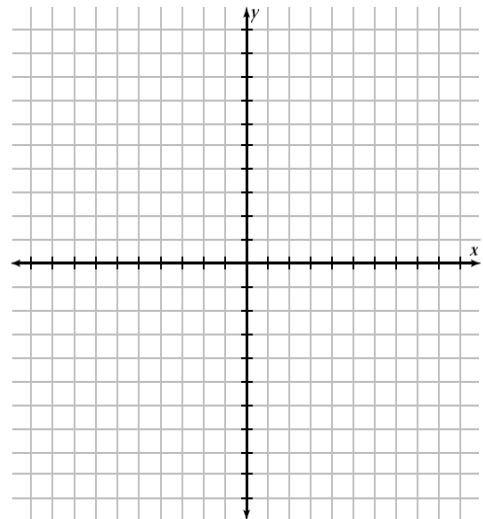
Solution: (,)

4)
$$y = -2x + 6$$
$$y = \frac{1}{2}x + 1$$



Solution: (,)

4)
$$3y = 9x + 6$$
$$y = 3x + 2$$



Solution: (,)

Solve the systems of equations using substitution. If there is no solution or infinitely many solutions, state this.

5) $8x + 10 = y$
 $y = 3x$

6) $y = 2x + 3$
 $y = -4x + 9$

Solution: (,)

Solution: (,)

7) $y = 3x - 1$
 $2x + y = 14$

8) $5x + y = 10$
 $4x - 2y = 8$

Solution: (,)

Solution: (,)

9) Solve for y , then without graphing or using substitution, decide whether the following system of linear equations has *one solution*, *infinitely many solutions*, or *no solution*. Explain.

$$y = 2x - 4$$
$$8y = 16x - 8$$