

3.5 - Best Method

Date _____ Period _____

Solve each system by any method.

$$1) \begin{cases} x + y = 1 \\ 2x - 3y = 12 \end{cases}$$

- A) (2, 3) B) (-2, 3)
 C) (2, -3) *D) (3, -2)

$$2) \begin{cases} x - 4y = -16 \\ 7x + 4y = -16 \end{cases}$$

- A) (4, 3)
 *B) (-4, 3)
 C) (-4, -3)
 D) Infinite number of solutions

$$3) \begin{cases} y = 1 \\ 2x + 2y = 6 \end{cases}$$

- *A) (2, 1) B) (-1, -8)
 C) (1, -8) D) (-8, 1)

$$4) \begin{cases} -3x - y = -22 \\ 3x + y = 28 \end{cases}$$

- *A) No solution B) (10, 10)
 C) (-8, 10) D) (10, 5)

$$5) \begin{cases} y = 4 \\ -x - 6y = -18 \end{cases}$$

- A) (-6, -4) B) (-1, 4)
 C) (-2, -1) *D) (-6, 4)

$$6) \begin{cases} -4x + 5y = -22 \\ y = 2x - 14 \end{cases}$$

- *A) (8, 2) B) (-8, 2)
 C) (2, -8) D) (-5, 2)

7) $4x + 20y = 8$
 $x - 10y = -13$

- A) $(-3, 4)$ B) $(4, 4)$
 C) $(3, -4)$ *D) $(-3, 1)$

8) $-5x - 8y = -5$
 $-2x - 5y = -11$

- *A) $(-7, 5)$ B) $(-7, -9)$
 C) $(-7, 9)$ D) $(-7, 1)$

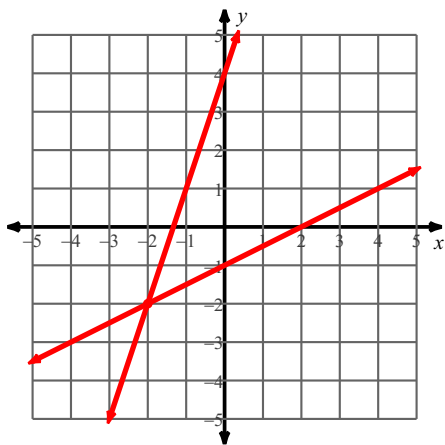
9) $4x + 7y = 23$
 $4x + 4y = -4$

- A) $(10, -9)$ *B) $(-10, 9)$
 C) $(-8, -9)$ D) $(-9, -9)$

10) $x - 4y = 9$
 $5x + 2y = -21$

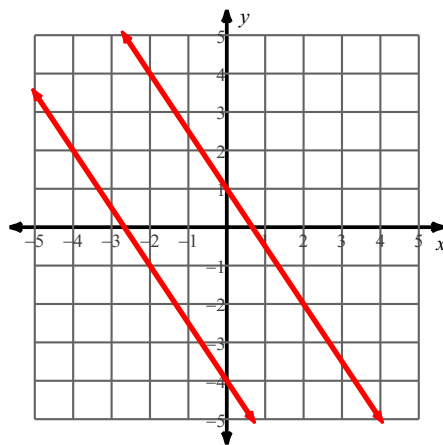
- A) $(-3, 3)$ B) $(3, -3)$
 *C) $(-3, -3)$ D) $(-8, 3)$

11) $y = 3x + 4$
 $y = \frac{1}{2}x - 1$



$(-2, -2)$

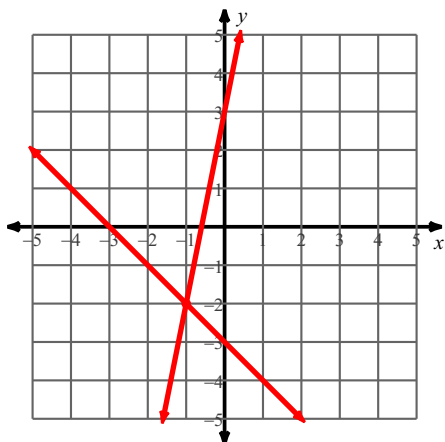
12) $y = -\frac{3}{2}x - 4$
 $y = -\frac{3}{2}x + 1$



No solution

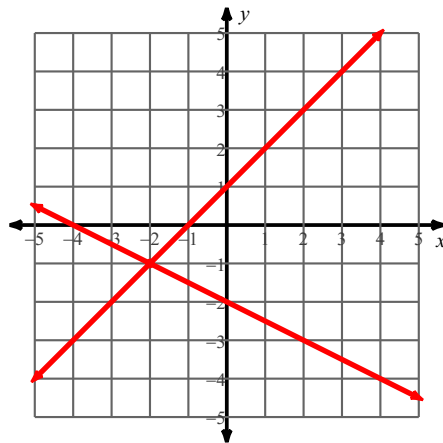
Solve each system by any method. You do not have to use the given graph.

13) $y = 5x + 3$
 $y = -x - 3$



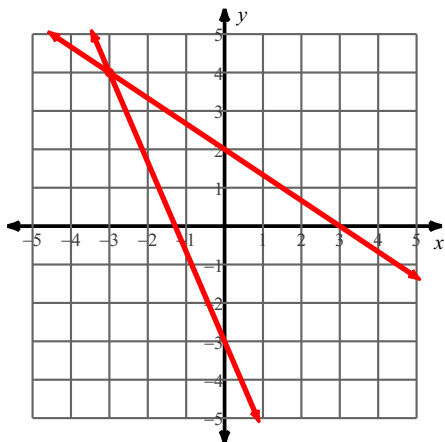
$(-1, -2)$

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



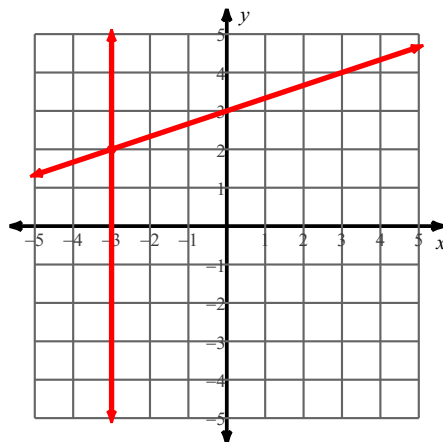
$(-2, -1)$

15) $2x + 3y = 6$
 $7x + 3y = -9$



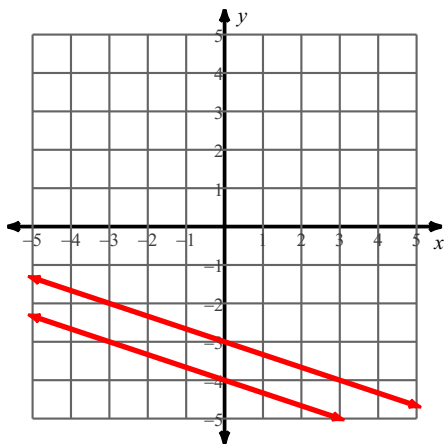
$(-3, 4)$

16) $x = -3$
 $x - 3y = -9$



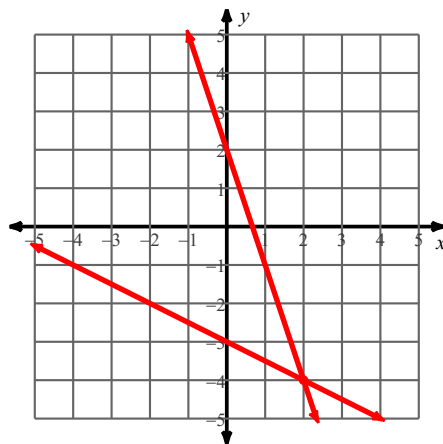
$(-3, 2)$

17) $x + 3y = -9$
 $x + 3y = -12$



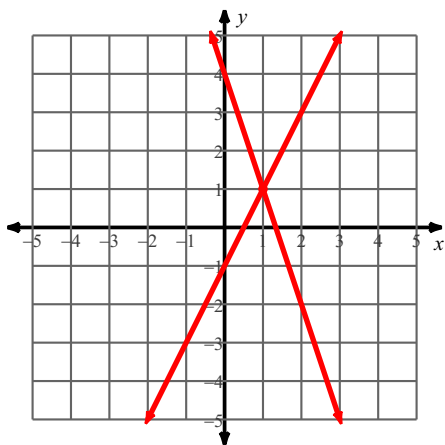
No solution

18) $3x + y = 2$
 $x + 2y = -6$



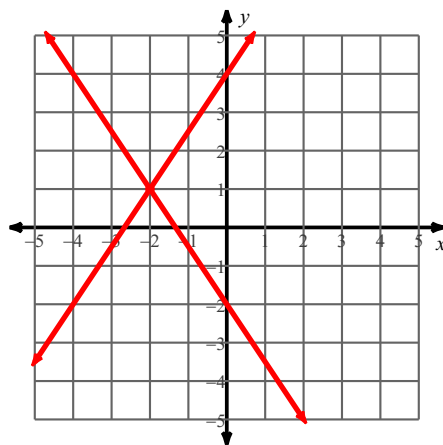
(2, -4)

19) $2x - y = 1$
 $3x + y = 4$



(1, 1)

20) $3x + 2y = -4$
 $3x - 2y = -8$



(-2, 1)