

## Review for Assessment on System of Equations

Date \_\_\_\_\_

**Solve each system by graphing.**

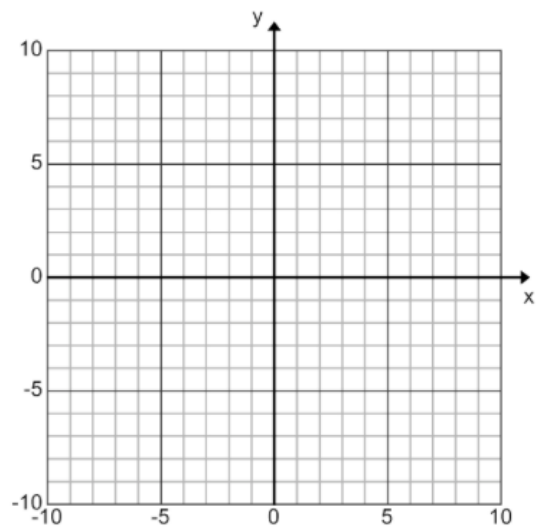
1) 
$$\begin{aligned} 2x - 3y &= -3 \\ x + 3y &= 12 \end{aligned}$$

2) 
$$\begin{aligned} x - 4y &= -12 \\ 7x - 4y &= 12 \end{aligned}$$

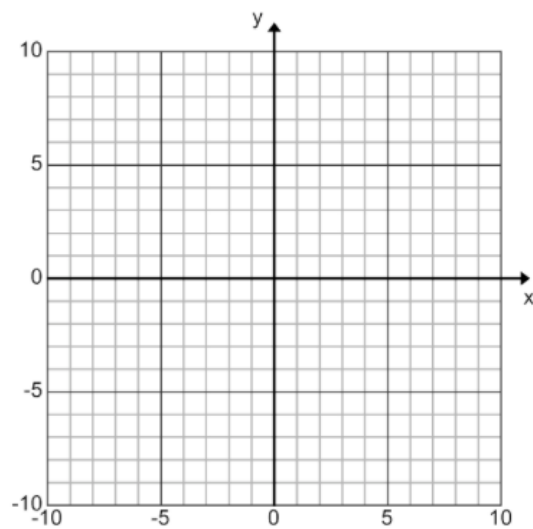
3) 
$$\begin{aligned} y &= -4x + 3 \\ y &= 3x - 4 \end{aligned}$$

4) 
$$\begin{aligned} y &= -2x + 3 \\ y &= -2x + 4 \end{aligned}$$

$$5) \begin{aligned} -8 &= -5x + 2y \\ 2y - 4 + x &= 0 \end{aligned}$$



$$6) \begin{aligned} 0 &= -y + 1 + \frac{1}{2}x \\ -x + \frac{6}{5} &= -\frac{2}{5}y \end{aligned}$$



**Solve each system using an appropriate method.**

$$7) \begin{aligned} y &= 5x + 19 \\ 5x + 2y &= -22 \end{aligned}$$

$$8) \begin{aligned} -9x - 3y &= 54 \\ y &= -3x - 18 \end{aligned}$$

$$\begin{aligned} 9) \quad & -3x + 3y = -3 \\ & -2x + y = 3 \end{aligned}$$

$$\begin{aligned} 10) \quad & 3x + 4y = 18 \\ & x - 6y = 6 \end{aligned}$$

$$\begin{aligned} 11) \quad & 3x - 6y = 30 \\ & -4x + 6y = -20 \end{aligned}$$

$$\begin{aligned} 12) \quad & x - 5y = -6 \\ & -x + 8y = 9 \end{aligned}$$

$$\begin{aligned} 13) \quad & -12x - 6y = 19 \\ & 6x + 3y = -6 \end{aligned}$$

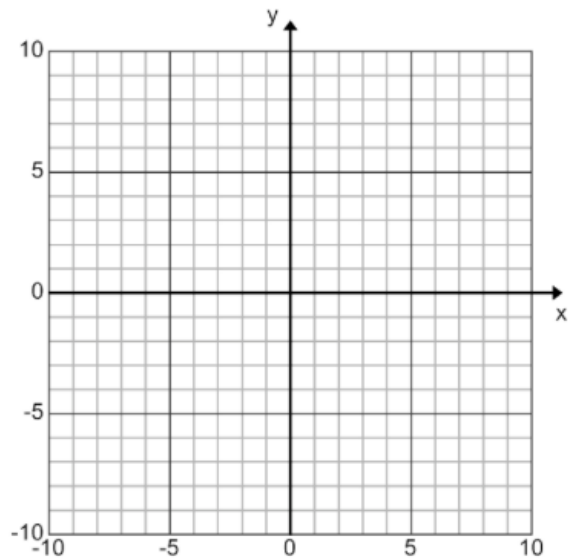
$$\begin{aligned} 14) \quad & 10x + y = -3 \\ & -70x - 7y = -7 \end{aligned}$$

$$\begin{aligned} 15) \quad & -7x + 8y = 30 \\ & -2x + 10y = 24 \end{aligned}$$

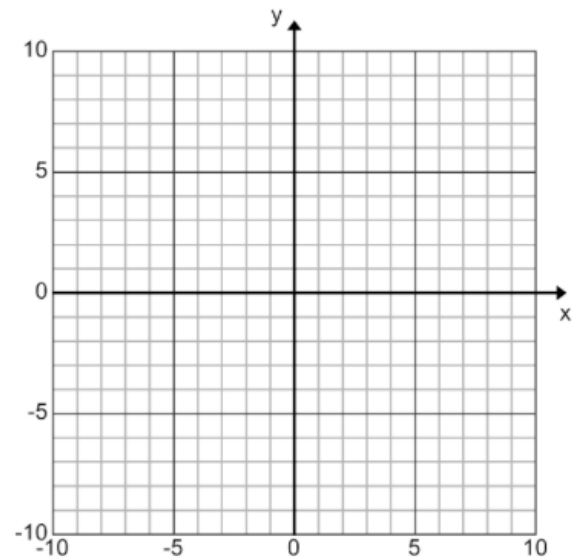
$$\begin{aligned} 16) \quad & -7x - 3y = 29 \\ & -2x - 2y = 6 \end{aligned}$$

Sketch the solution to each system of inequalities.

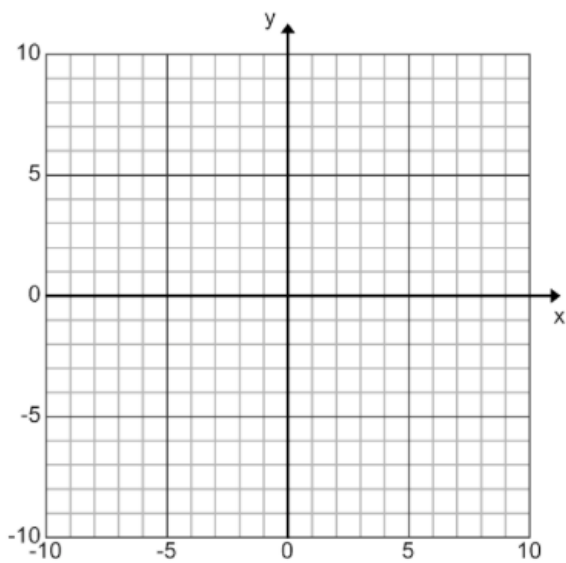
17)  $6x + y > 3$   
 $x + y \geq -2$



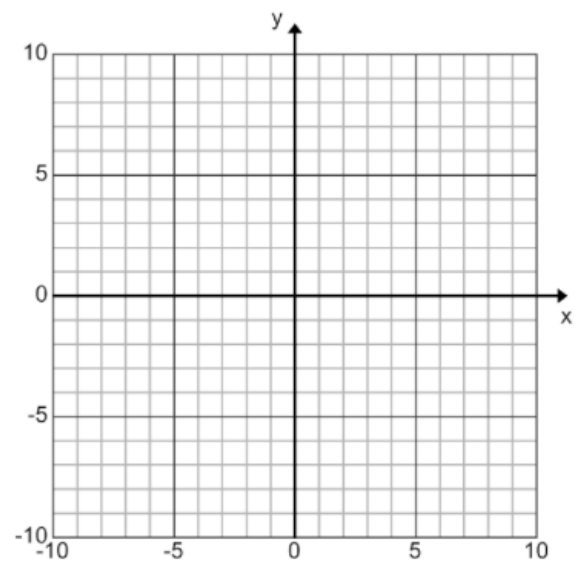
18)  $4x - y \geq -3$   
 $2x + y \geq -3$



19)  $y \geq 2x - 3$   
 $y < -x + 3$

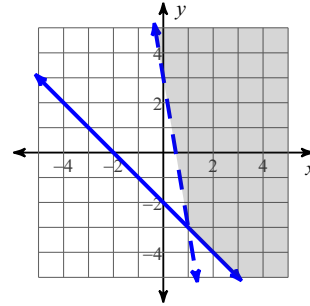


20)  $y > -\frac{1}{3}x + 2$   
 $y < -2x - 3$

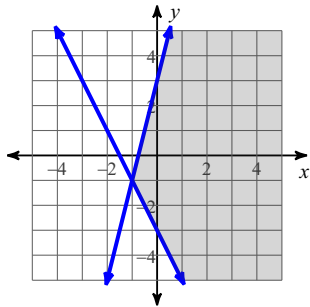


## Answers to Review for Assessment on System of Equations (ID: 1)

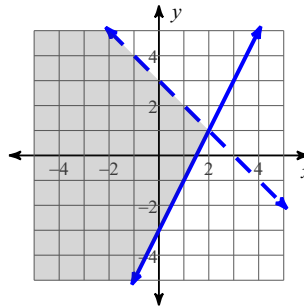
- |                                 |             |                 |                 |
|---------------------------------|-------------|-----------------|-----------------|
| 1) (3, 3)                       | 2) (4, 4)   | 3) (1, -1)      | 4) No solution  |
| 5) (2, 1)                       | 6) (2, 2)   | 7) (-4, -1)     |                 |
| 8) Infinite number of solutions | 9) (-4, -5) | 10) (6, 0)      |                 |
| 11) (-10, -10)                  | 12) (-1, 1) | 13) No solution | 14) No solution |
| 15) (-2, 2)                     | 16) (-5, 2) | 17)             |                 |



18)



19)



20)

