

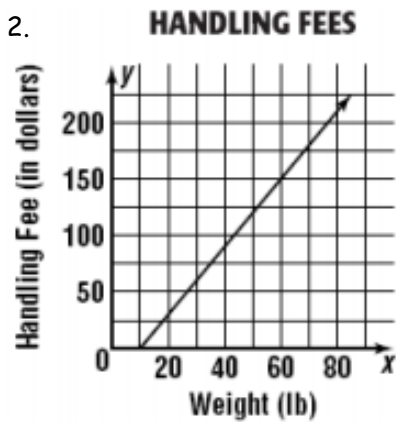
**Line and System Quiz Review**

Find the rate of change.

1.

Water Level Loss	
Week	Water Loss (cm)
1	1.5
2	3
3	4.5
4	6

2.



Find the slope of the line that passes through the following points.

3.  $(0, -2)$  and  $(-5, -4)$

4.  $(1, -2)$  and  $(1, -4)$

5.  $(-2, 2)$  and  $(3, -1)$



Write an equation of the line that goes through the following points.

6.  $(-4, -2)$  and  $(-1, -2)$

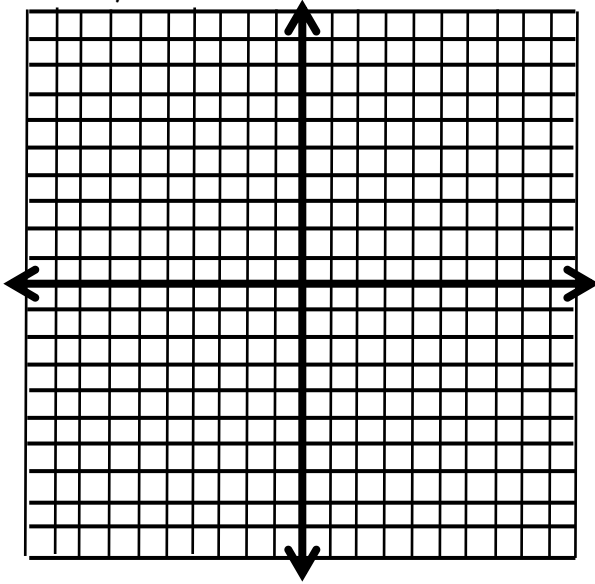
7.  $(-4, 5)$  and  $(-3, 2)$

8.  $(0, 3)$  and  $(-5, -1)$



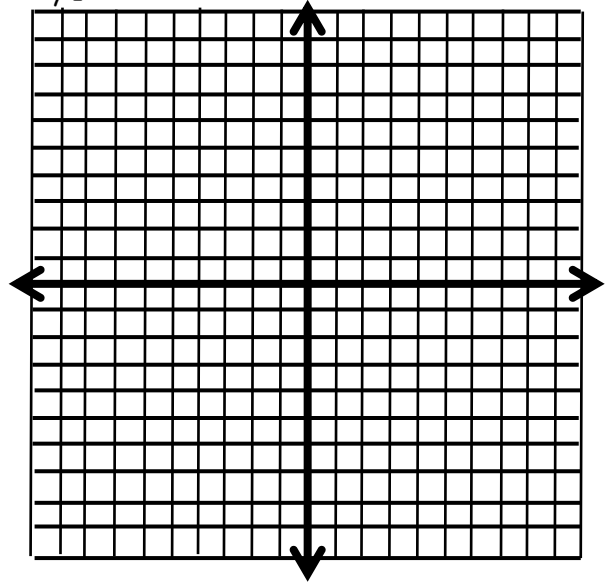
Solve the system of inequalities by graphing.

9.  $y \geq -\frac{2}{3}x - 4$   
 $y > 3x - 4$



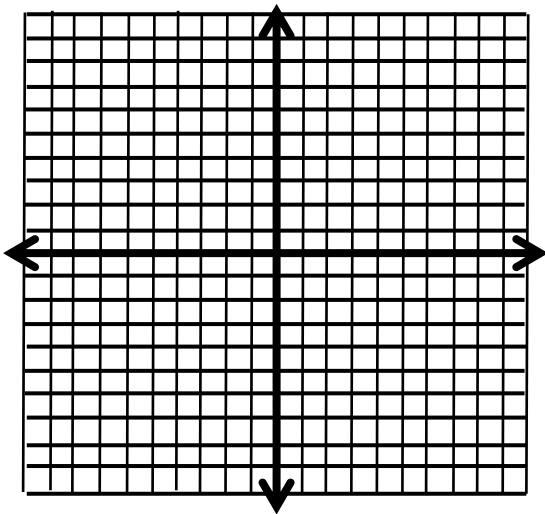
10.  $x \geq 2$

$y \leq -x + 4$

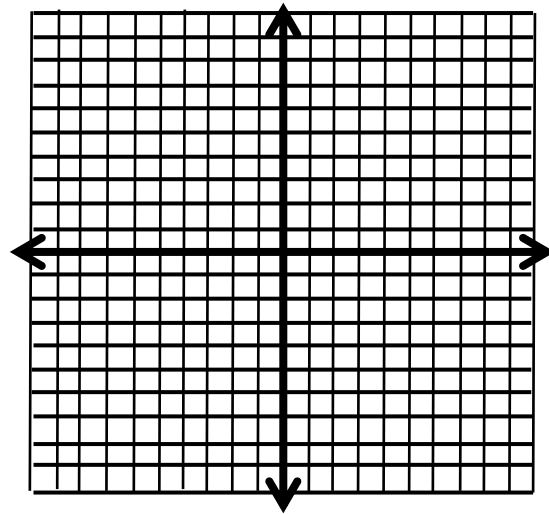


Solve the system of equations by graphing.

11.  $y = 3x - 9$   
 $y = -\frac{3}{4}x + 6$



12.  $y = \frac{2}{3}x + 2$   
 $y = 4$



Solve the system of equations by substitution.

13.  $-4x + y = -9$   
 $y = x - 3$

14.  $-8x + 5y = 17$   
 $y = 6x + 21$



$$\begin{aligned} 15. \quad & 2x + y = 20 \\ & -3x + 4y = 14 \end{aligned}$$

$$\begin{aligned} 16. \quad & -8x + y = -6 \\ & 24x - 3y = 5 \end{aligned}$$



**Solve the system of equations by elimination.**

$$\begin{aligned} 17. \quad & -7x + 4y = 24 \\ & 4x - 4y = 0 \end{aligned}$$



$$\begin{aligned} 18. \quad & 4x - y = 20 \\ & -2x - 2y = 10 \end{aligned}$$



$$\begin{aligned} 19. \quad & 6x - 12y = 24 \\ & -x - 6y = 4 \end{aligned}$$

$$\begin{aligned} 20. \quad & -y - x = 2 \\ & -4y - 11x = 36 \end{aligned}$$