

## 10-1,2 Writing Linear Equations

Write the equation of the line in Slope-Intercept Form given the following information.

1.  $m = -\frac{1}{2}$  and  $(6, 0)$

2.  $m = 1$  and  $(2, -1)$

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

3.  $m = -\frac{1}{2}$  and  $(-6, -2)$

4.  $m = 0$  and  $(3, -4)$

$$y = -\frac{1}{2}x - 5$$

5.  $m = \frac{3}{2}$  and  $(-4, 1)$

6.  $m = -3$  and  $(0, 0)$

$$y = \frac{3}{2}x + 7$$

7.  $m = 3$  and  $(4, 5)$

8.  $m = \frac{1}{4}$  and  $(1, 1)$

$$y = 3x - 7$$

9.  $(-1, 2)$  and  $(-2, 1)$

10.  $(0, 7)$  and  $(-4, 1)$

$$y = x + 3$$

Write the equation of the line in Slope-Intercept Form given the following information.

11.  $(0, -12)$  and  $(-6, -2)$

$$y = -\frac{5}{3}x - 12$$

12.  $(1, -3)$  and  $(0, 0)$

13.  $(1, -4)$  and  $(3, -4)$

$$y = -4$$

14.  $(1, 1)$  and  $(1, 7)$

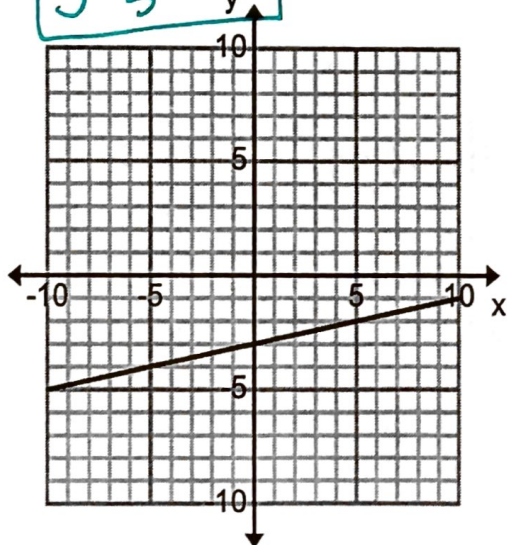
15.  $(-2, -3)$  and  $(-2, 5)$

$$x = -2$$

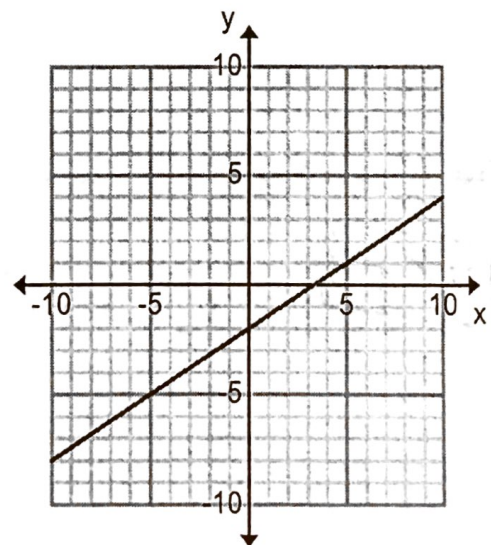
16.  $(1, 2)$  and  $(-4, -3)$

Write the equation of the graphed line in slope-intercept form

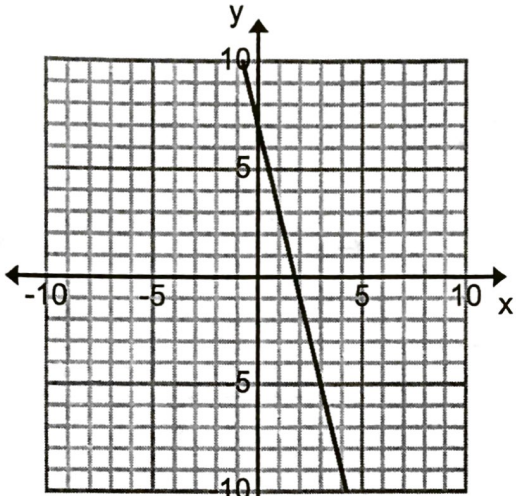
17.  $y = \frac{1}{5}x - 3$



18.

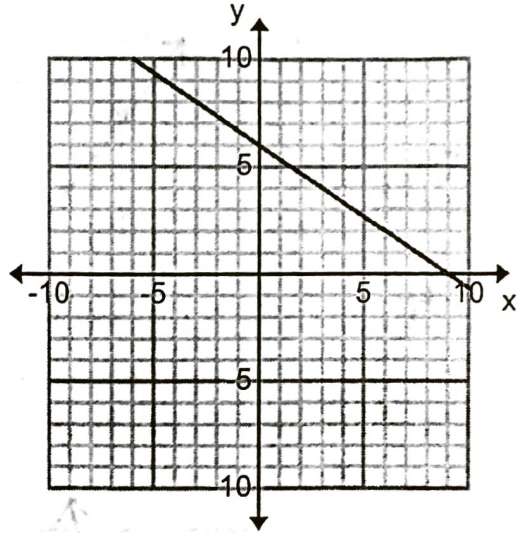


Write the equation of the graphed line in slope-intercept form

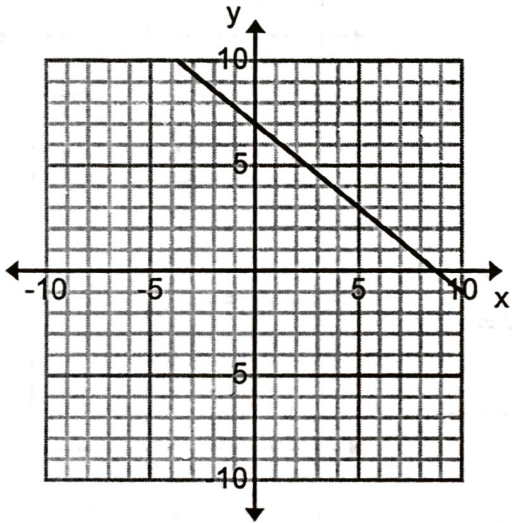


$$y = -4x + 7$$

20.

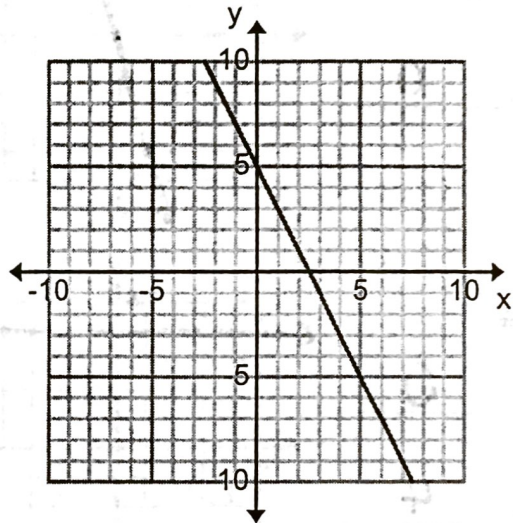


21.



$$y = -\frac{4}{5}x + 7$$

22.

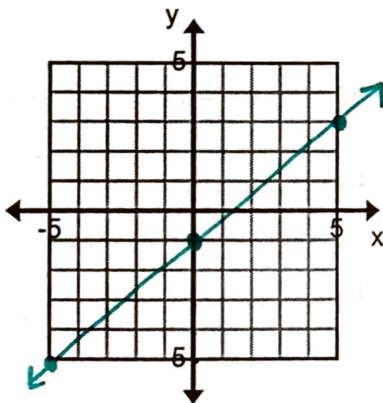


Identify the slope ( $m$ ),  $y$ -intercept ( $b$ ) and then graph the equation.

23.  $y = \frac{4}{5}x - 1$

$m = \underline{\frac{4}{5}}$

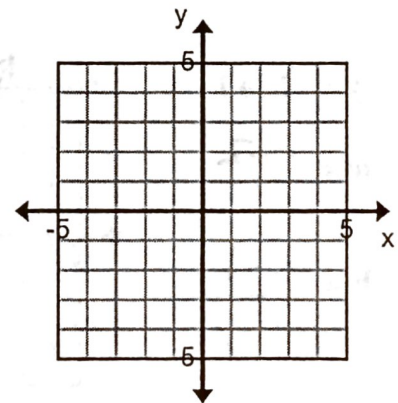
$b = \underline{-1}$



24.  $y = x$

$m = \underline{\hspace{2cm}}$

$b = \underline{\hspace{2cm}}$

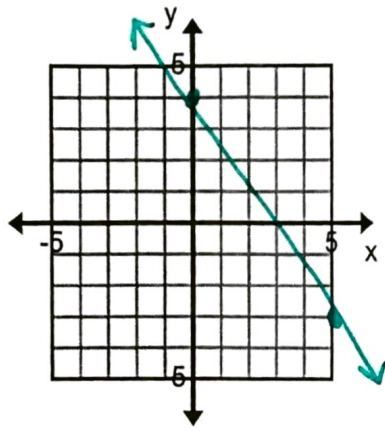


Identify the slope ( $m$ ), y-intercept ( $b$ ) and then graph the equation.

25.  $y = -\frac{7}{5}x + 4$

$m = -\frac{7}{5}$

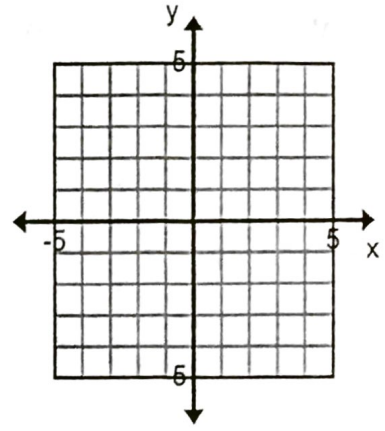
$b = 4$



26.  $y = \frac{1}{3}x - 2$

$m =$  \_\_\_\_\_

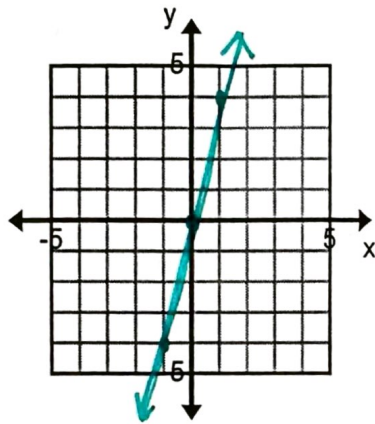
$b =$  \_\_\_\_\_



27.  $y = 4x$

$m = 4$

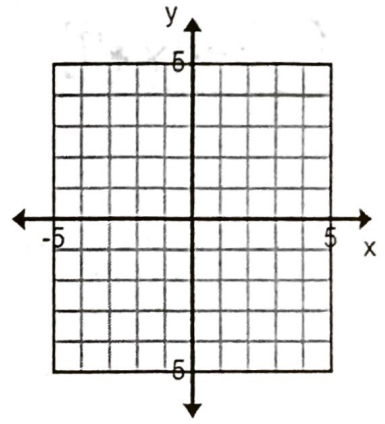
$b = 0$



28.  $x = -3$

$m =$  \_\_\_\_\_

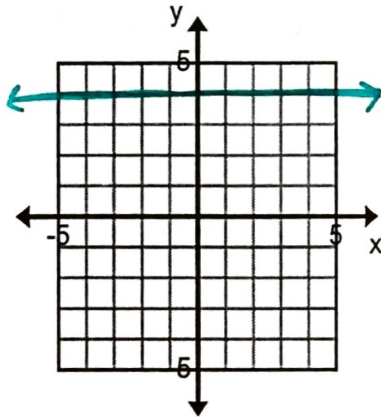
$b =$  \_\_\_\_\_



29.  $y = 4$

$m = 0$

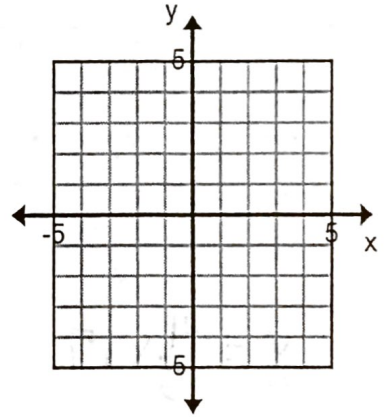
$b = 4$



30.  $y = -2x$

$m =$  \_\_\_\_\_

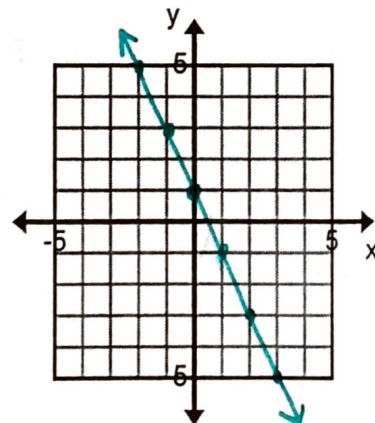
$b =$  \_\_\_\_\_



31.  $y = -2x + 1$

$m = -2$

$b = 1$



32.  $y = -x$

$m =$  \_\_\_\_\_

$b =$  \_\_\_\_\_

