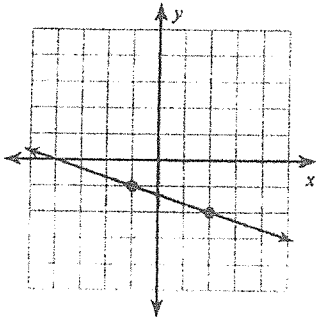


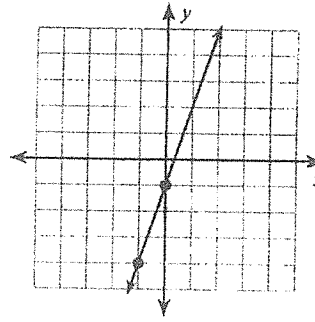
Slope

Find the slope of each line. $m = \frac{\text{rise}}{\text{run}} = \frac{y_2 - y_1}{x_2 - x_1}$

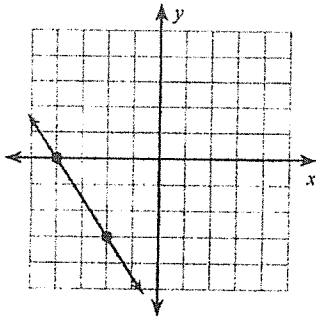
1)



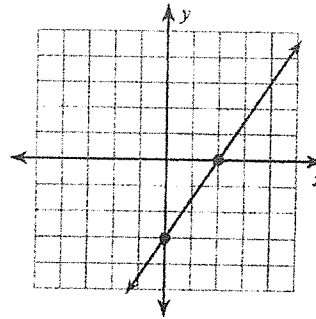
2)



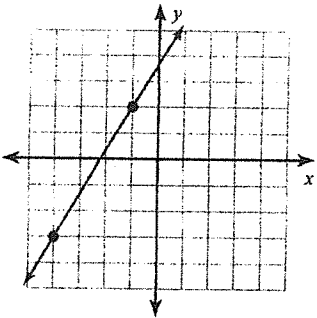
3)



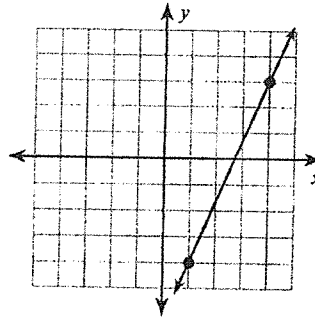
4)



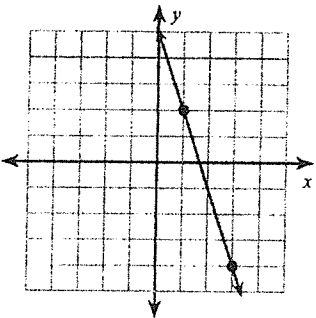
5)



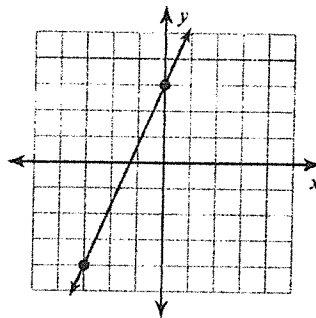
6)



7)



8)



$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

Find the slope of the line through each pair of points.

9) (8, 10), (-7, 14)

10) (-3, 1), (-17, 2)

11) (-20, -4), (-12, -10)

12) (-12, -5), (0, -8)

13) (-19, -6), (15, 16)

14) (-6, 9), (7, -9)

15) (-18, -20), (-18, -15)

16) (12, -18), (11, 12)

Find the slope of each line.

Find y-intercept.

$$y = mx + b$$

17) $y = -5x - 1$

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

19) $y = -\frac{1}{5}x - 4$

20) $x = 1$

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

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

23) $y = -x + 2$

24) $y = -x - 1$

25) $2x + 3y = 9$

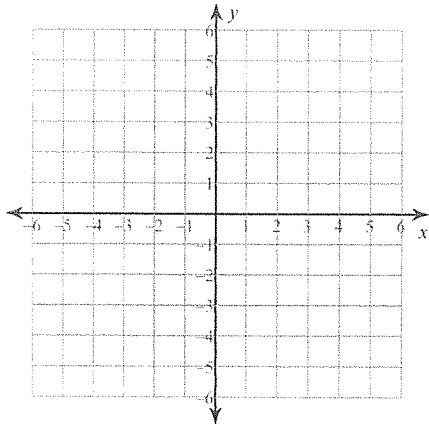
26) $5x + 2y = 6$

Graphing Lines in Slope-Intercept Form

Sketch the graph of each line.

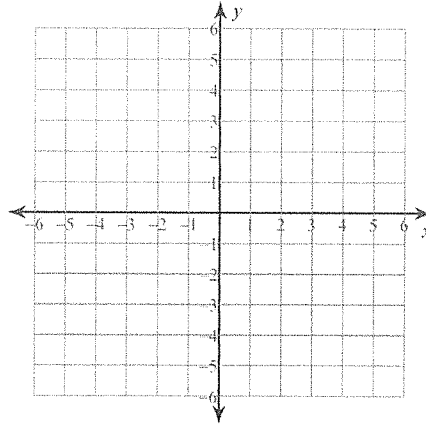
1) $y = \frac{1}{4}x - 1$

$y = mx + b$

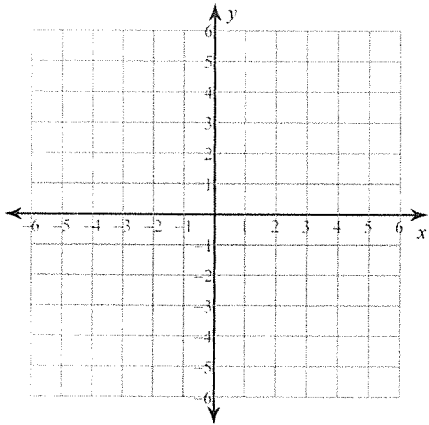


$m =$
 $b =$

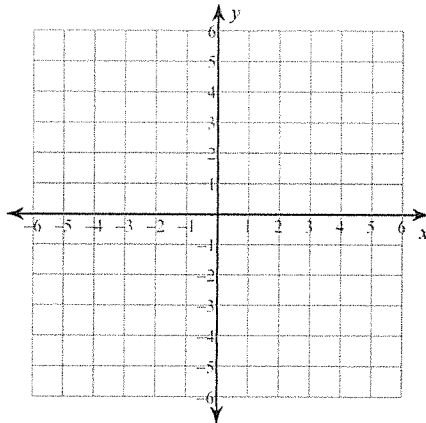
2) $y = -x + 2$



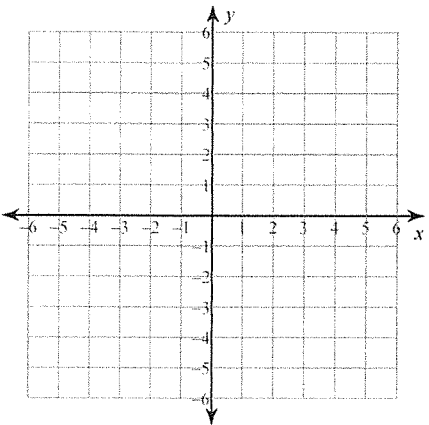
3) $y = x + 1$



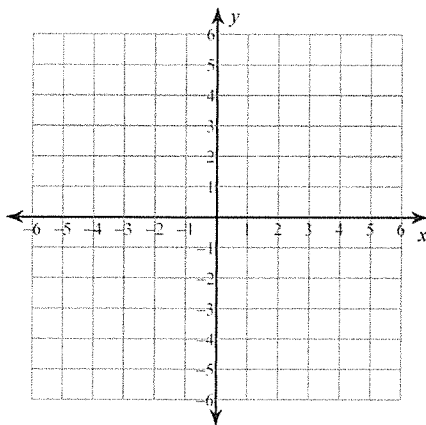
4) $y = \frac{4}{3}x - 4$



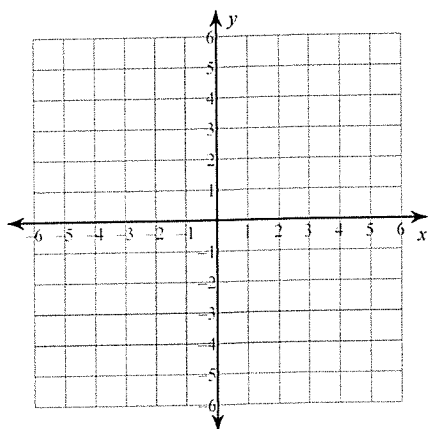
5) $y = -3x - 3$



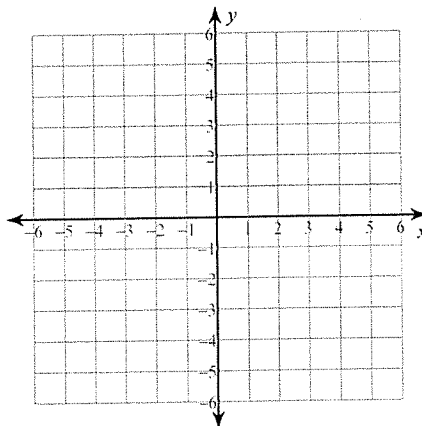
6) $y = 4$



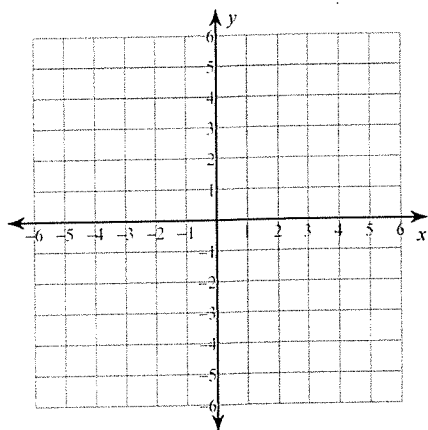
7) $y = \frac{3}{5}x - 1$



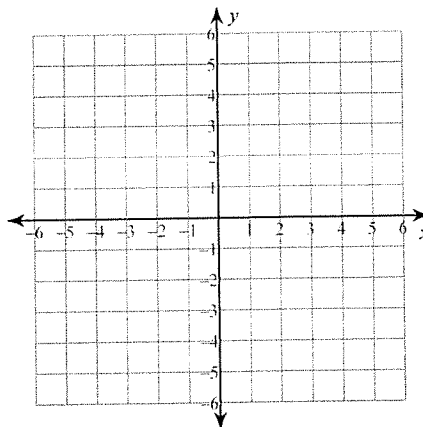
8) $x = 5$



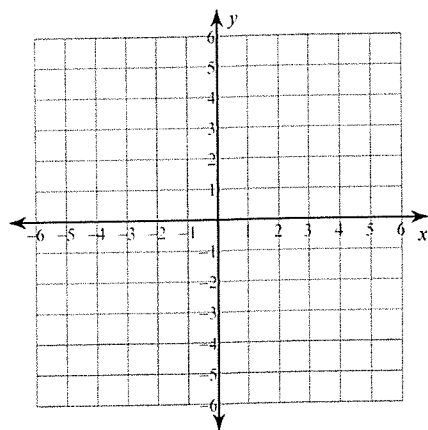
9) $y = 3$



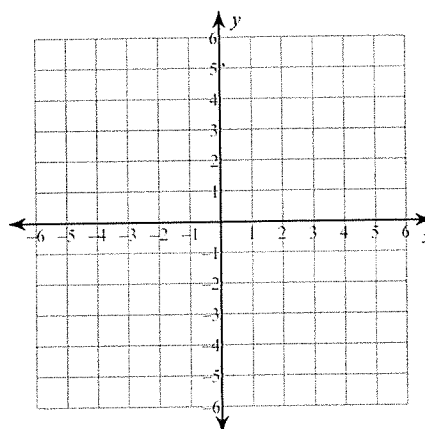
10) $y = 3x - 2$



11) $y = 4x + 3$



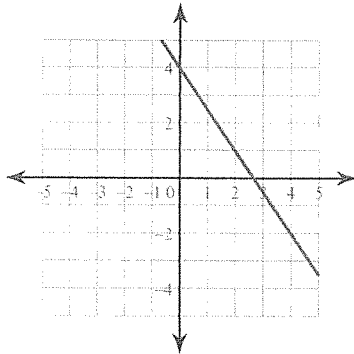
12) $y = \frac{6}{5}x + 5$



Writing Linear Equations

Write the slope-intercept form of the equation of each line.

1)

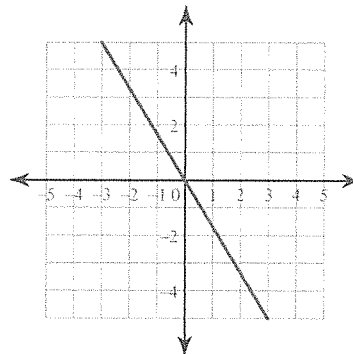


$$y = mx + b$$

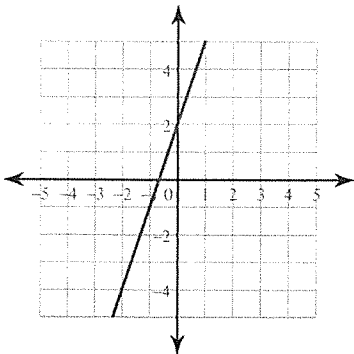
$$m = \quad b =$$

$$y = \quad x + \quad$$

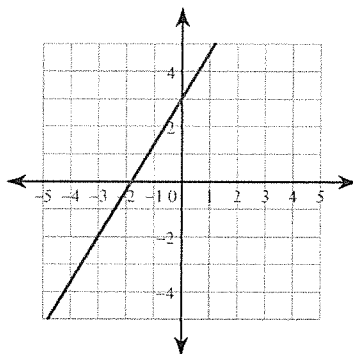
2)



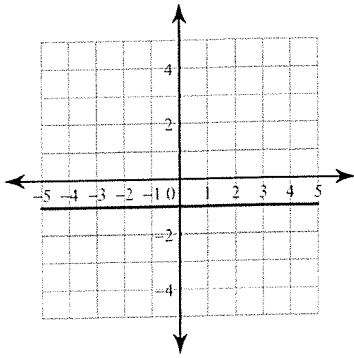
3)



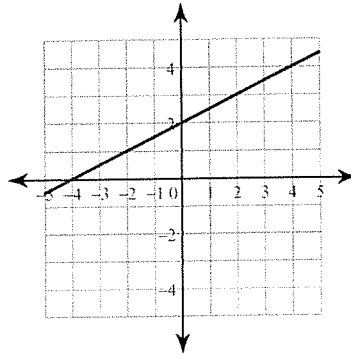
4)



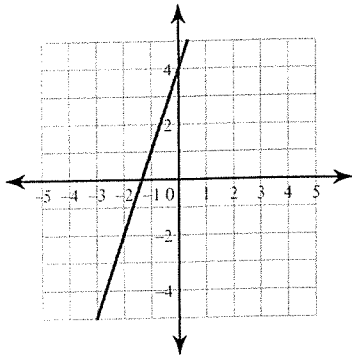
5)



6)



7)



8)

