

Find the slope and y-intercept of the graph of each equation.

1. $y = 3x - 5$

2. $y = -5x + 13$

3. $y = -x - 1$

4. $y = -11x + 6$

5. $y = -5$

6. $y = \frac{1}{2}x + 6$ $m = \frac{1}{2}$ $b = 6$

Write an equation of a line with the given slope m and y-intercept b .

7. $m = -1, b = 3$

8. $m = 4, b = -2$

9. $m = -5, b = -8$

$$y = -1x + 3$$

Write an equation of a line with the given slope m and a point. SHOW WORK!!

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

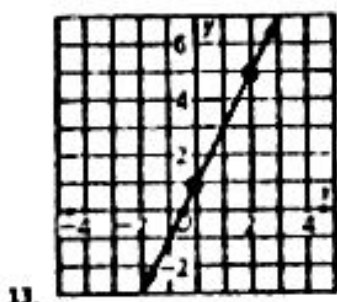
11. $m = -2$ and point $(4, 6)$

12. $m = -4$ and point $(-1, 1)$

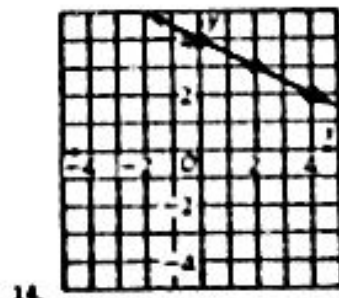
$$\begin{aligned} 1 &= -4(-1) + b \\ 1 &= 4 + b \\ -4 &\quad -4 \\ \hline -3 &= b \end{aligned}$$

$$y = -4x - 3$$

Write an equation in slope-intercept form of each line.



$$y = 2x + 1$$



Write an equation in slope-intercept form of the line that passes through the given points. SHOW WORK!!

$$\frac{4-5}{0-3} = \frac{-1}{-3} = \frac{1}{3}$$

$$\begin{aligned} 15. (3, 5) \text{ and } (0, 4) \\ 4 &= \frac{1}{3}(0) + b \\ 4 &= 0 + b \\ 4 &= b \\ y &= \frac{1}{3}x + 4 \end{aligned}$$

16. $(2, 6)$ and $(-4, -2)$

17. $(-1, 3)$ and $(-3, 1)$

18. $(-7, 5)$ and $(3, 0)$

19. $(10, 2)$ and $(-2, -2)$

20. $(0, -1)$ and $(5, 6)$