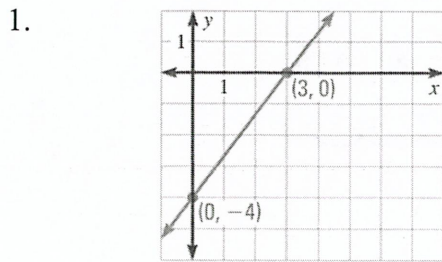
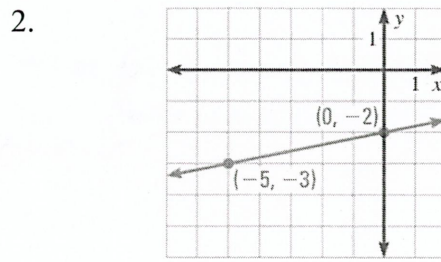


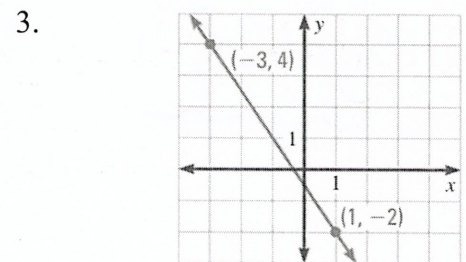
Write an equation ($y = mx + b$) of the line shown.



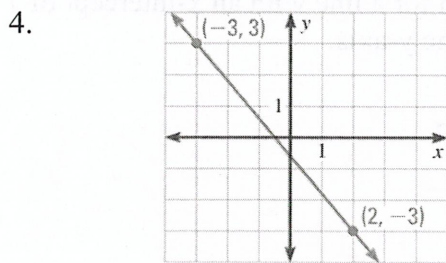
$y = \frac{4}{3}x - 4$



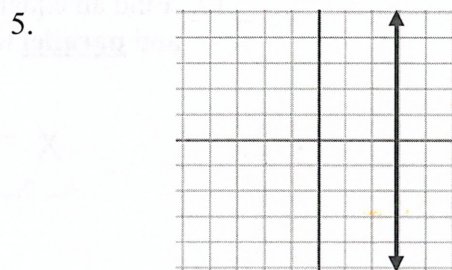
$y = \frac{1}{5}x - 2$



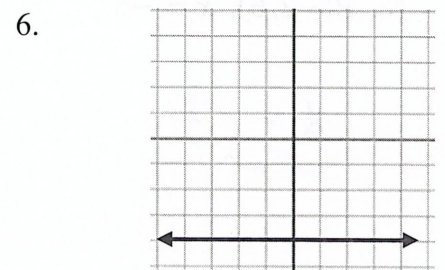
$y = -\frac{3}{2}x - \frac{1}{2}$



$y = -\frac{6}{5}x - \frac{3}{5}$



$x = 3$



$y = -4$

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

7. $m = -5, b = -12$

$y = -5x - 12$

8. $m = 4, b = 0$

$y = 4x$

9. $m = -\frac{5}{2}, b = 6$

$y = -\frac{5}{2}x + 6$

Write an equation of the line that passes through the given point P and has the given slope m .

10. $P(5, 4), m = 4$

$y = 4x - 16$

11. $P(6, -2), m = 3$

$y = 3x - 20$

12. $P(-6, -2), m = -\frac{2}{3}$

$y = -\frac{2}{3}x - 6$

13. $P(-13, 7), m = 0$

$y = 7$

Write an equation of the line that passes through point P and is **parallel** to the line with the given equation.

14. $P(-3, 5), y = -2x + 3$

$$\underline{y = -2x - 1}$$

15. $P(4, -2), 10x + 4y = -8$

$$\underline{y = -\frac{5}{2}x + 8}$$

16. $P(-2, 6), x = -5$

$$\underline{x = -2}$$

17. Find an equation for a line with an x-intercept of 7 and **parallel** to the y-axis.

$$\underline{x = 7}$$

Write an equation of the line that passes through point P and is **perpendicular** to the line with the given equation.

18. $P(2, 3), y - 4 = -2x - 6$

$$\underline{y = \frac{1}{2}x + 2}$$

19. $P(-6, 0), 3x - 5y = 6$

$$\underline{y = -\frac{5}{3}x - 10}$$

20. $P(-2, 6), x = -5$

$$\underline{y = 6}$$

21. Find an equation for a line with a y-intercept of -2 and **perpendicular** to the y-axis.

$$\underline{y = -2}$$

22. Write an equation of the line with undefined slope that passes through the point $(3, -2)$.

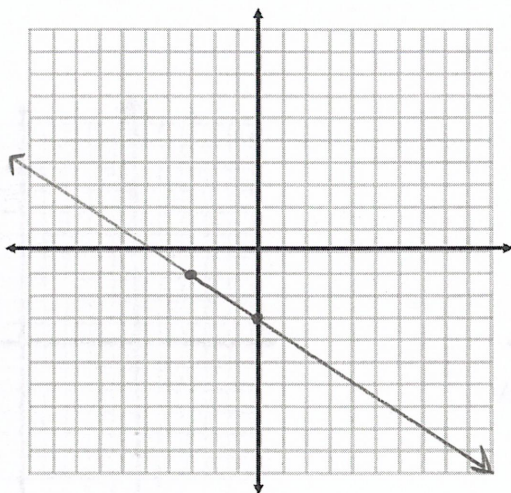
$$\underline{x = 3}$$

23. Find an equation for a line with an x-intercept of 2 and a y-intercept of 4.

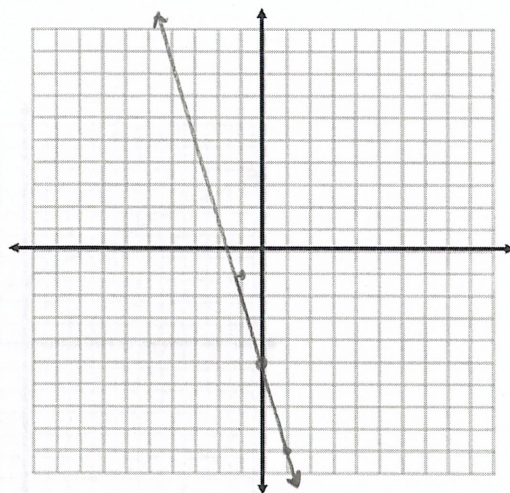
$$\underline{y = -2x + 4}$$

Graph each equation.

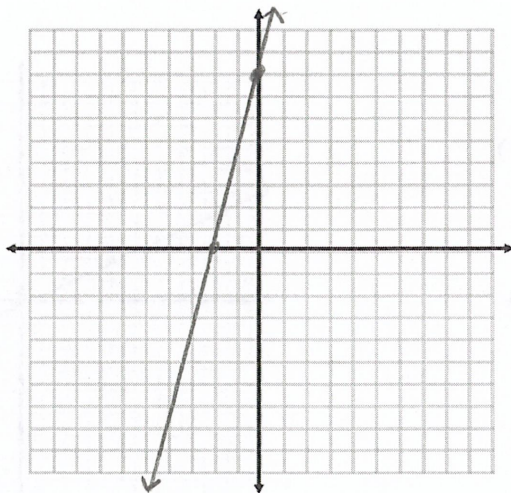
24. $y = -\frac{2}{3}x - 3$



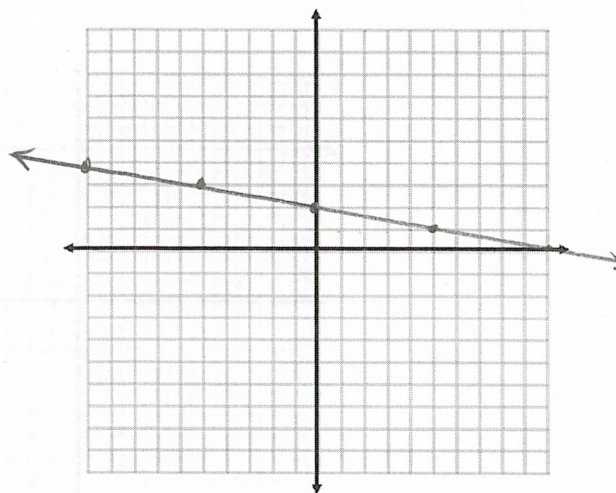
25. $2y = -8x - 10$



26. $4x - y = -8$

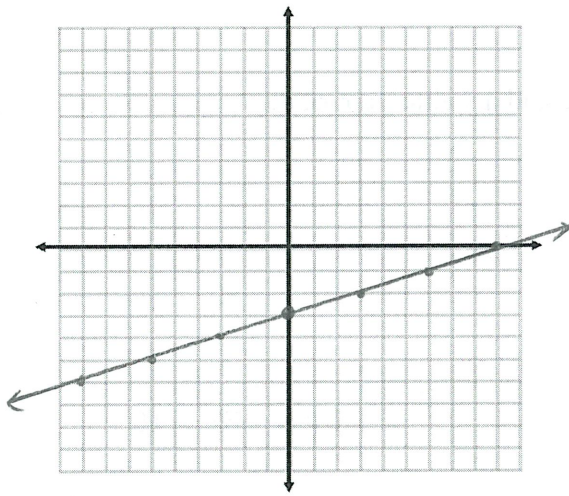


27. $-5y + 10 = x$

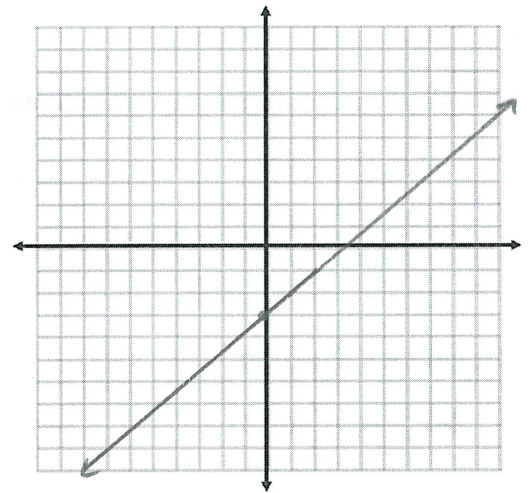


Graph each equation.

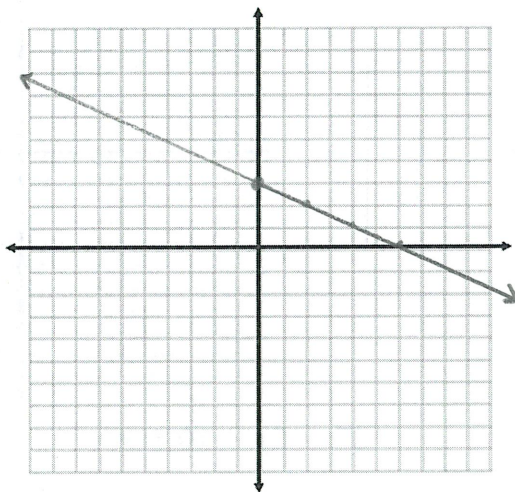
28. $-x + 3y = -9$



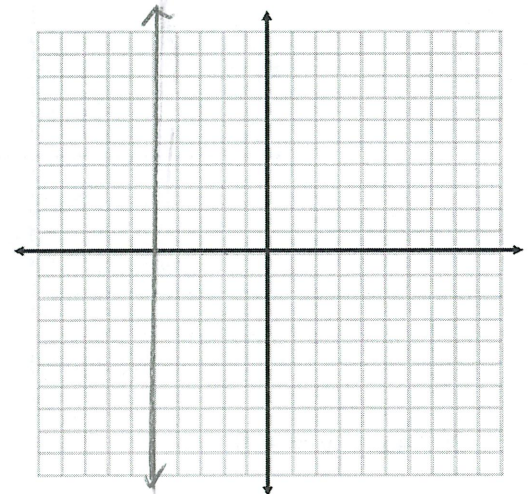
29. $y + 2 = x - 1$



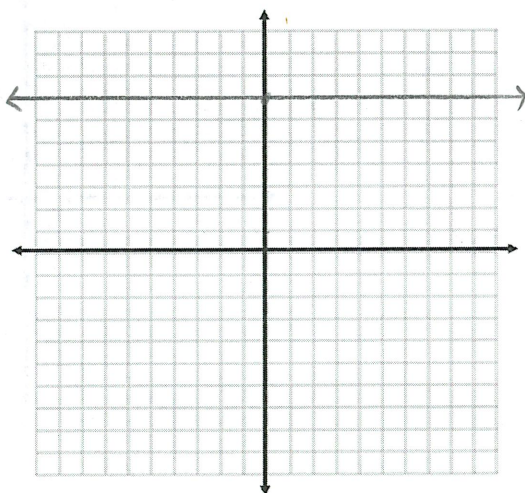
30. $2y - 4 = -x + 2$



31. $x + 1 = -4$



32. $y - 2 = 5$



33. $2(x - 1) = -4y - 2$

