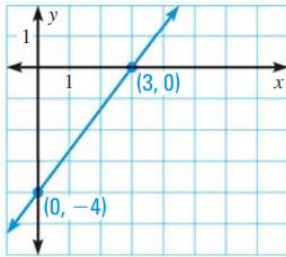
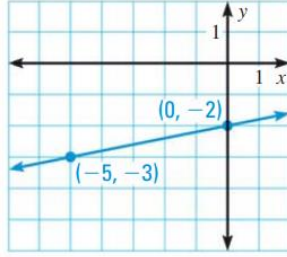


Write an equation ($y = mx + b$) of the line shown.

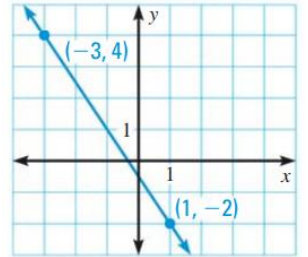
1.



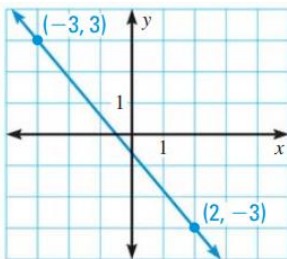
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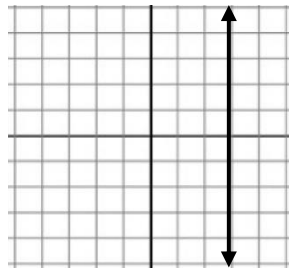
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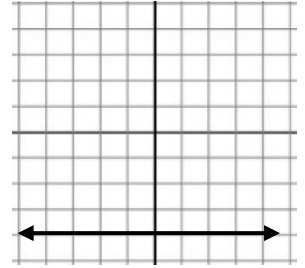
4.



5.



6.



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

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

8. $m = 4, b = 0$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

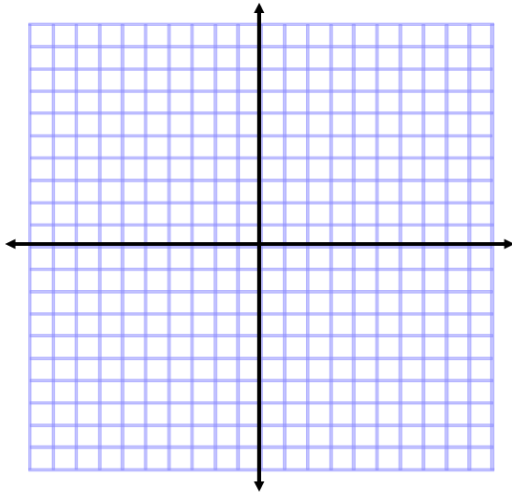
21. Find an equation for a line with a y-intercept of -2 and **perpendicular** to the y-axis.

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

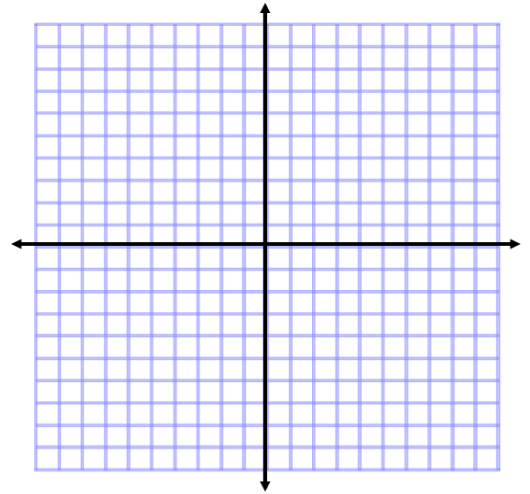
23. Find an equation for a line with an x-intercept of 2 and a y-intercept of 4.

Graph each equation.

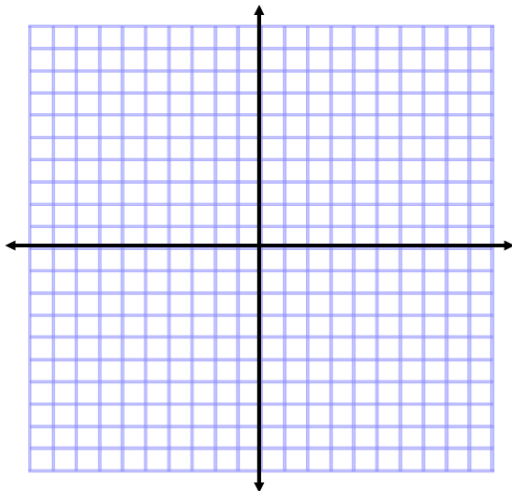
24. $y = -\frac{2}{3}x - 3$



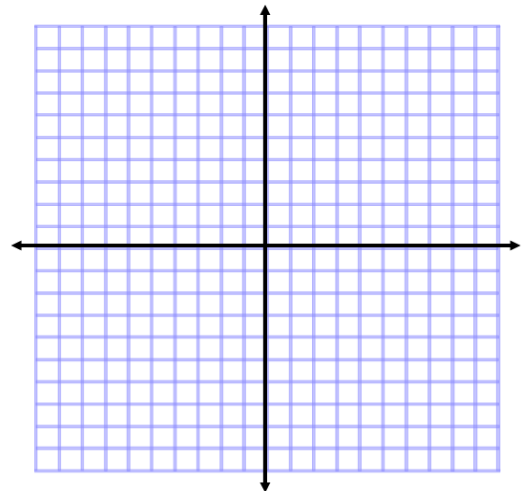
25. $2y = -8x - 10$



26. $4x - y = -8$

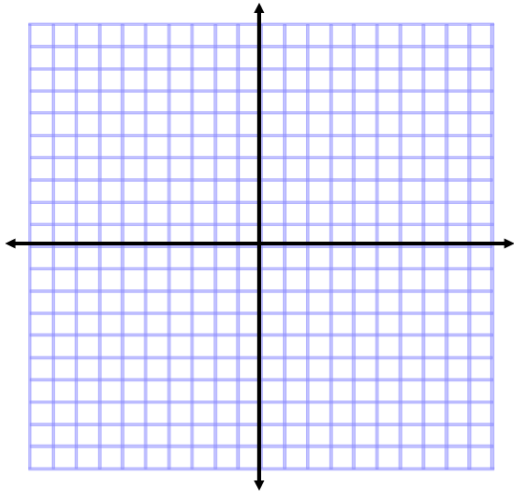


27. $-5y + 10 = x$

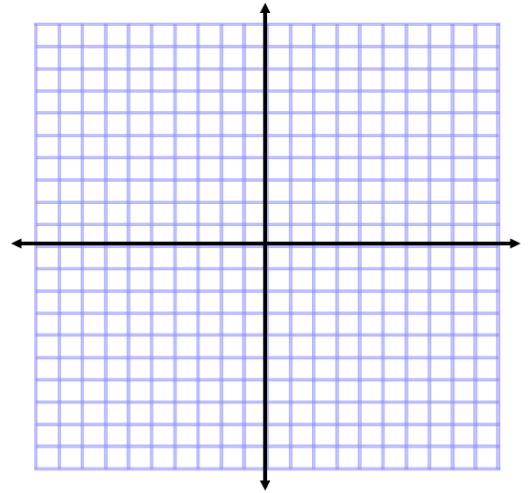


Graph each equation.

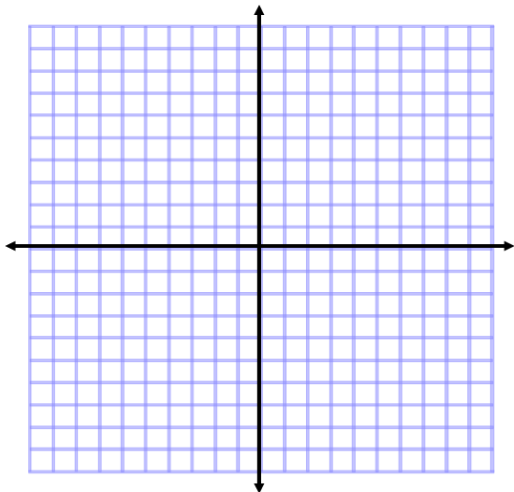
28. $-x + 3y = -9$



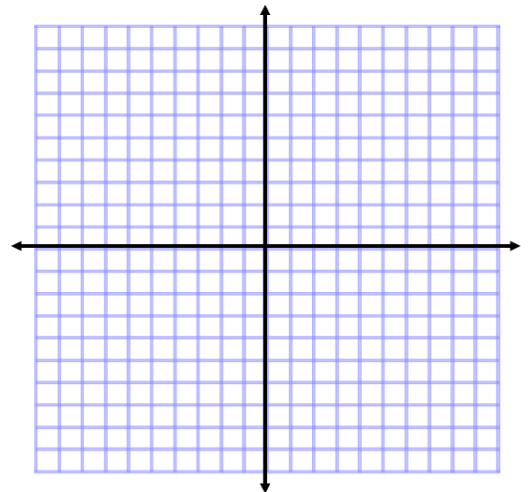
29. $y + 2 = x - 1$



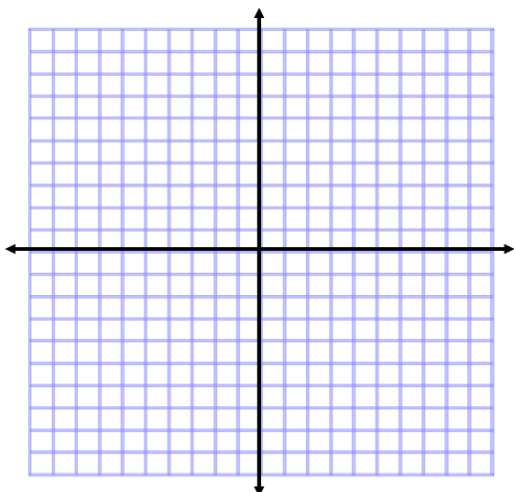
30. $2y - 4 = -x + 2$



31. $x + 1 = -4$



32. $y - 2 = 5$



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

