

Assignment 24 LESSON 3.5

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

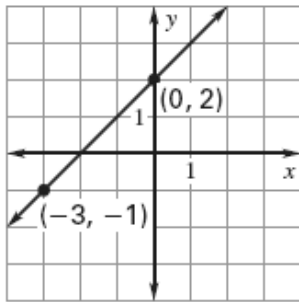
1. $m = 2; b = 3$

2. $m = 1; b = 1$

3. $m = -6; b = 4$

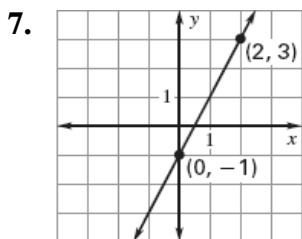
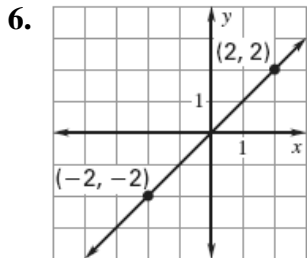
4. $m = \frac{1}{2}; b = -5$

5. **Multiple Choice** Which equation is an equation of the line in the graph?

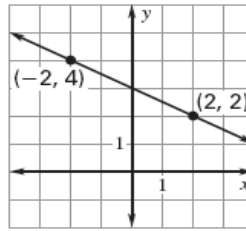


- A. $y = 2x + 2$
- B. $y = x + 2$
- C. $y = -2x + 2$
- D. $y = -x + 2$

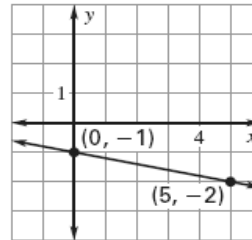
Write an equation of the line shown.



8.



9.



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

10. $P(0, 2); m = 3$

11. $P(2, 4); m = \frac{1}{2}$

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

12. $P(2, 5); y = 4x + 1$

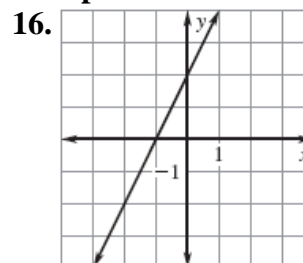
13. $P(0, 1); y = -x + 3$

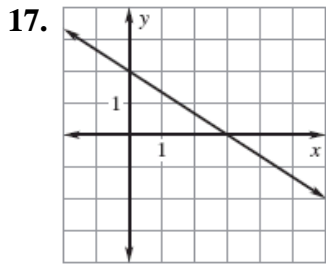
Write an equation of the line that passes through point P and is perpendicular to the line with the given equation.

14. $P(4, 2); y = \frac{1}{2}x + 4$

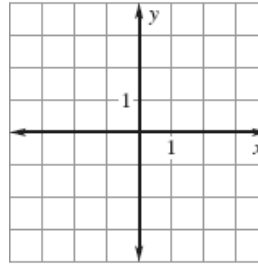
15. $P(-2, 6); y = 2$

Identify the x - and y -intercepts of the line. Use the intercepts to write an equation of the line.



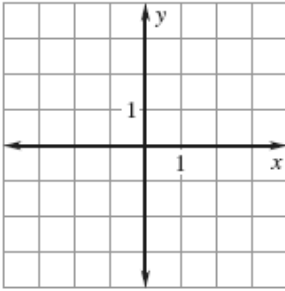


22. $2y + 1 = 3x + 5$

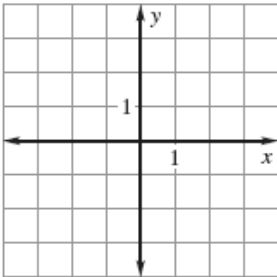


Graph the equation.

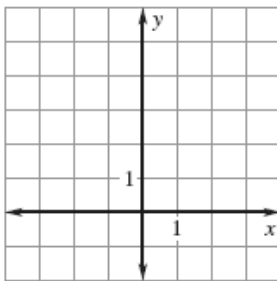
18. $-x + y = 1$



19. $3x + y = 2$



20. $4x + 2y = 8$



21. $y - 4 = x - 1$

