

NAME _____

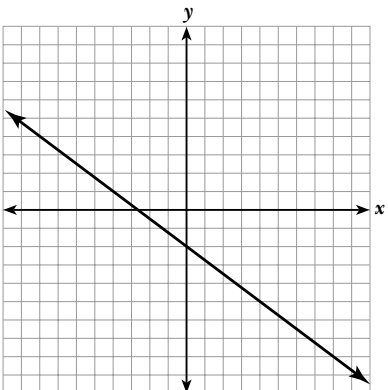
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Module Test **B**

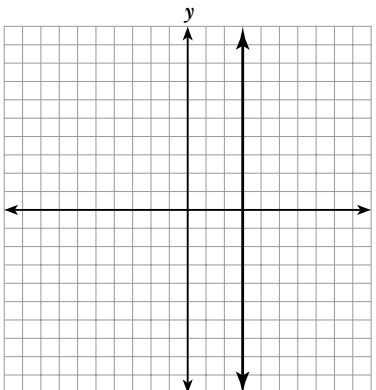
Module 8

Use **rise** over **run** to find the slope of each line.

1.



2.



Find the slope of the line passing through the given points.

3. (0, 0) and (3, -1) _____

4. (4, 5) and (4, -3) _____

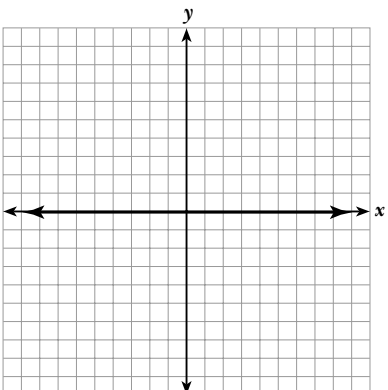
5. Find the slope of a line perpendicular to the y-axis.

6. Find the slope of a line parallel to the line passing through the points (2, 3) and (5, 3).

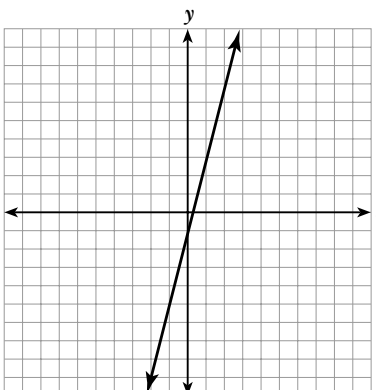
7. Find the slope of a line perpendicular to the line passing through the points (3, 2) and (6, 5). _____

Find the slope-intercept form of the equation of the line shown.

8.



9.



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Find the equation of the line in slope-intercept form.

10. Slope = 2 y-intercept = -3

12. Write the equation of the line in slope-intercept form that has slope -4 and passes through the point (-3, -2).

14. Write the equation of the line in slope-intercept form that is parallel to the line $y = \frac{1}{4}x - 5$ and has a y-intercept of -2.

16. Find the equation in slope-intercept form of the line that passes through the point (1, 2) and has a slope of 0.

18. Find the equation in slope-intercept form of the line that contains the point (2, 5) and is perpendicular to the graph of $y = -x$.

20. Find the slope and y-intercept of $3x + 2y = 6$.

22. Given $y = 2x + 1$, determine the resulting equation when the slope is multiplied by 3. Compare the graphs.

11. Slope = $\frac{1}{5}$ y-intercept = 0

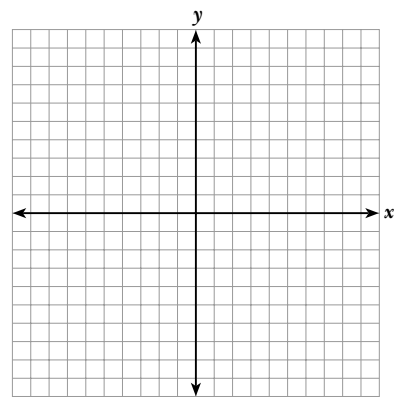
13. Write the equation of the line that is perpendicular to $x = 3$ and passes through the point (-4, 8).

15. Find the equation in slope-intercept form of the line that passes through the point (-1, 5) and has a slope of -2.

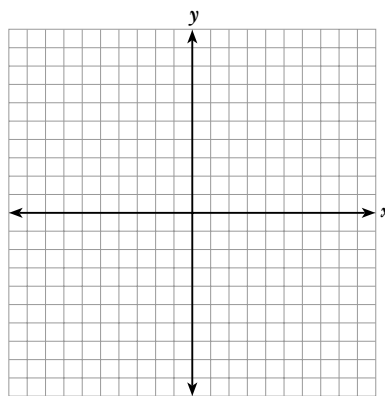
17. Find the equation of the line that contains the point (-2, -6) and has an undefined slope.

19. Find the equation in slope-intercept form of the line that passes through the point (8, -2) and is perpendicular to the line through the points (0, 0) and (4, 1).

21. Find the slope and y-intercept of $-x - y = -5$.



23. Find an equation of the line in slope-intercept form with the same y -intercept and opposite slope as the line $3x + y = -2$. Compare the graphs.



24. The equation $3x - y = 4$ can be written in which of the following ways.

- A. $y = 3x - 4$ B. $y = -3x - 4$
 C. $y = -3x + 4$ D. $y = 3x + 4$

25. Suppose two linear equations are graphed on the same coordinate plane. The lines do not intersect. The y -intercept of one of the lines is 3 less than the y -intercept of the other line. Which of the following pairs of equations could represent the lines?

- A. $y = 2x + 2$; $y = 2x + 6$
 B. $y = 2x + 2$; $y = -x + 2$
 C. $y = 2x + 2$; $y = 2x + 5$
 D. $y = 2x + 2$; $y = 2x - 6$

26. Answer the following questions in the space provided. Show all work. Be sure to label responses (A), (B), and (C).

- A. Graph the line represented by the equation $-4x + 3y = 12$.
- B. Multiply the slope of the line by 3 and increase its y -intercept by 2. Write the new equation. Graph the resulting line on the same coordinate plane.
- _____
- C. How are the two graphs related?
- _____
- _____

