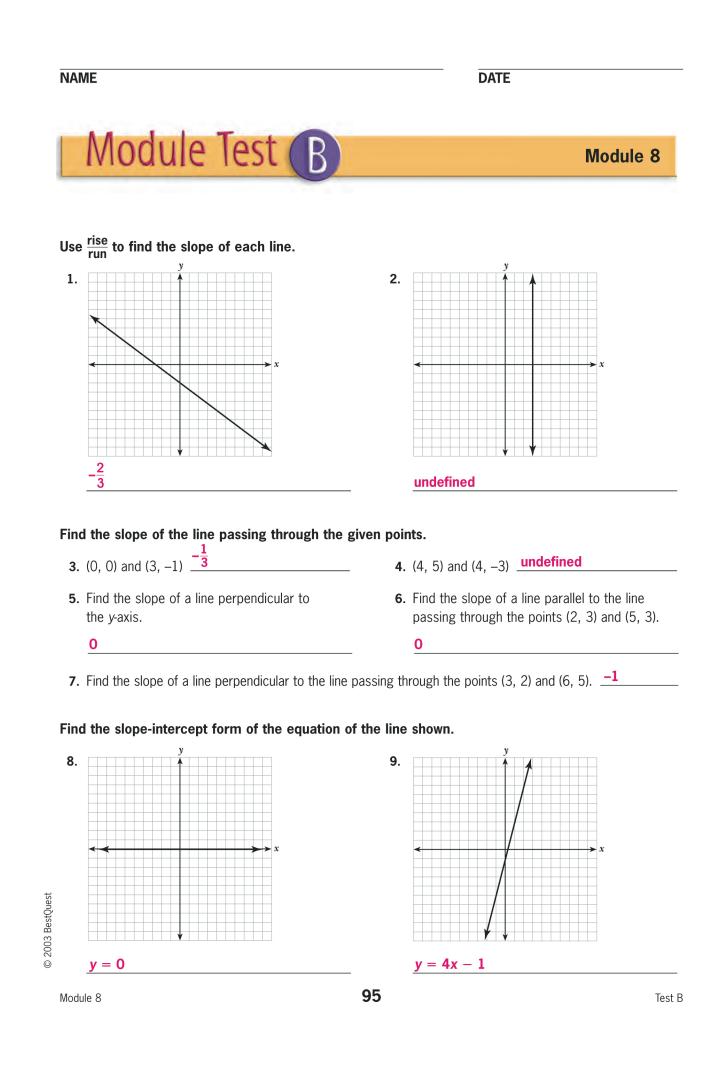
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Find the equation of the line in slope-intercept form.

10. Slope = 2 y-intercept = -3

y = 2x - 3

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

y = -4x - 14

- 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. $y = \frac{1}{4}x - 2$
- **16.** Find the equation in slope-intercept form of the line that passes through the point (1, 2) and has a slope of 0.

y = 2

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.

y = x + 3

- **20.** Find the slope and *y*-intercept of 3x + 2y = 6. $-\frac{3}{2}$; **3**
- **22.** Given y = 2x + 1, determine the resulting equation when the slope is multiplied by 3. Compare the graphs.

y = 6x + 1

The resulting line is steeper than the

original line. The lines intersect at the

y-intercept.

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

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

y = **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.

y = -2x + 3

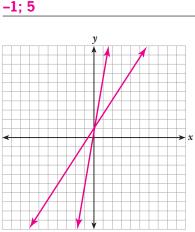
17. Find the equation of the line that contains the point (-2, -6) and has an undefined slope.

x = -2

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).

y = -4x + 30

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



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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

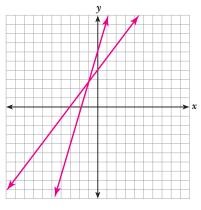
- **26.** Answer the following questions in the space provided. Show all work. Be sure to label responses (A), (B), and (C).
 - **A.** Graph the line represented by the equation -4x + 3y = 12.
 - **B.** Multiply the slope of the line by 3 and increase its *y*-intercept by 2. Write the new equation. Graph the resulting line on the same coordinate plane.

y = 4x + 6

C. How are the two graphs related?

The resulting line is steeper and

intersects the y-axis two units up.



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