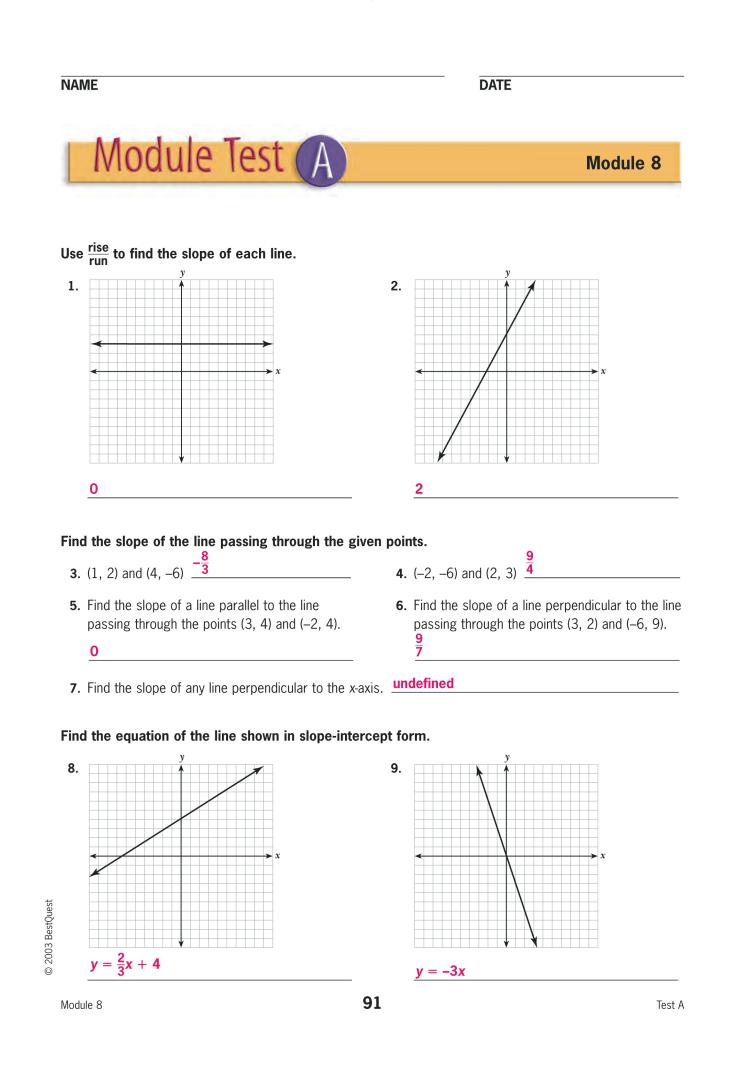
## DIGITAL



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

**10.** Slope = 2 y-intercept = -8

y = 2x - 8

**12.** Find the equation of the line that has an undefined slope and passes through (3, –2).

x = 3

- 14. Write the equation of the line in slope-intercept form that is perpendicular to  $y = -\frac{3}{4}x + 2$ and has a *y*-intercept of -3.  $y = \frac{4}{3}x - 3$
- **16.** Find the equation in slope-intercept form of the line that contains the point (2, -3) and has a slope of 4.

y = 4x - 11

**18.** Find the equation in slope-intercept form of the line that contains the point (1, 4) and is perpendicular to the graph of y = -x.

#### y = x + 3

- **20.** Find the slope and *y*-intercept of 2x + 3y = 6.  $-\frac{2}{3}$ ; **2**
- **22.** Given  $y = -\frac{3}{5}x + 4$ , determine the resulting equation when the *y*-intercept is decreased by 2. Compare the graphs.

 $y=-\frac{3}{5}x+2$ 

The lines are parallel. The resulting line

intersects the y-axis two units lower than

#### the given line.

- 11. Slope =  $\frac{4}{5}$  y-intercept = 0  $y = \frac{4}{5}x$
- **13.** Find the equation of the line in slope-intercept form that passes through the points (0, -2) and (3, 4).

y = 2x - 2

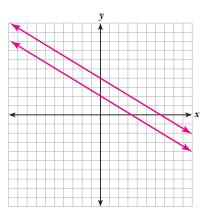
**15.** Write the equation of the line in slope-intercept form that is parallel to y = 2x + 3 and passes through the point (3, -5).

y = 2x - 11

- **17.** Find the equation in slope-intercept form of the line that contains the point (9, -3) and is parallel to the graph of  $y = \frac{1}{3}x + 2$ .  $y = \frac{1}{3}x - 6$
- **19.** Find the equation in slope-intercept form of the line that passes through the point (1, −2) and is parallel to the line through the points (1, 1) and (2, 2).

```
\mathbf{y} = \mathbf{x} - \mathbf{3}
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**21.** Find the slope and *y*-intercept of 4x - 5y = 15.  $\frac{4}{5}$ ; -3



Module 8

Test A

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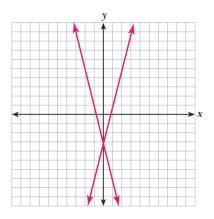
**23.** Find an equation of the line in slope-intercept form with the same *y*-intercept and opposite slope as the line y = -4x - 3. Compare the graphs.

y = 4x - 3

The given line rises to the left. The

resulting line rises to the right. The

lines intersect at the y-intercept.



**24.** What is the slope of the line that passes through the points (1, -1) and (4, 3)?

**A.**  $\frac{3}{4}$  **(B.**  $\frac{4}{3}$  **(C.**  $-\frac{3}{4}$  **(D.**  $-\frac{4}{3}$ 

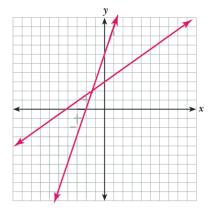
- **25.** When the slope of the line is negative, the orientation of the line is described by which of the following terms?
  - A. Rises to the rightB. Rises to the leftC. HorizontalD. Vertical
- **26.** Answer the following questions in the space provided. Show all work. Be sure to label responses (A), (B), and (C).
  - **A.** Graph the line represented by the equation -3x + 4y = 12.
  - **B.** Multiply the slope of the line by 4 and increase its *y*-intercept by 3. Write the new equation. Graph the resulting line on the same coordinate plane.

y = 3x + 6

c. How are the two graphs related?

The resulting line is steeper and

intersects the y-axis three units up.



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Module 8

Test A

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