

**additional
practice**

NAME _____

DATE _____

Module 8 Writing Linear Equations of Two Variables
Lesson 2 Writing Equations of Lines, Given the Slope and y-Intercept

Use the given information to write the equation of the line in slope-intercept form.

1. Slope: $\frac{2}{3}$ y-intercept: -3

2. Slope: $-\frac{5}{2}$ y-intercept: 4

3. Slope: $\frac{1}{8}$ y-intercept: 7

4. Slope: undefined Passes through: (0, 4)

5. Slope: $-\frac{1}{2}$ y-intercept: -1

6. Slope: 4 y-intercept: 3

7. Slope: $\frac{1}{3}$ y-intercept: -9

8. Slope: $\frac{7}{5}$ y-intercept: $-\frac{1}{8}$

9. Slope: 0 Passes through: (2, 5)

10. Slope: $-\frac{1}{5}$ y-intercept: 1

Write the slope-intercept form of the equation of the line described.

11. The line is perpendicular to the line $y = \frac{9}{4}x - 2$ and passes through the point (0, -6).

12. The line is parallel to the line $y = x + 3$ and passes through the point (0, 4).

13. The line is perpendicular to the line $y = -3x - 2$ and passes through the point (0, 8).

14. The line is parallel to the line $y = \frac{3}{4}x + 5$ and passes through the point (0, 1).

15. The line is parallel to the line $y = -\frac{1}{7}x - 4$ and passes through the origin.

16. The line is perpendicular to the line $y = -\frac{4}{3}x + 8$ and passes through the point (0, -2).

17. The line is parallel to the line $y = \frac{1}{3}x - 3$ and passes through the point (0, -8).

18. The line is perpendicular to the line $y = -6x + 1$ and passes through the point (0, 1).

© 2003 BestQuest



