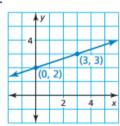
## Monitoring Progress and Modeling with Mathematics

In Exercises 3–8, write an equation of the line with the given slope and y-intercept. (See Example 1.)

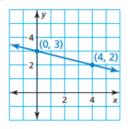
- **3.** slope: 2 y-intercept: 9
- **4.** slope: 0 y-intercept: 5
- 5. slope: -3 y-intercept: 0
- 6. slope: -7 y-intercept: 1
- 7. slope:  $\frac{2}{3}$ y-intercept: -8
- 8. slope:  $-\frac{3}{4}$  y-intercept: -6

In Exercises 9–12, write an equation of the line in slope-intercept form. (See Example 2.)

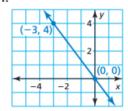
9.



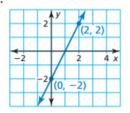
10.



11.



12.



In Exercises 13–18, write an equation of the line that passes through the given points. (See Example 3.)

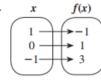
- **13.** (3, 1), (0, 10)
- **14.** (2, 7), (0, -5)
- **15.** (2, -4), (0, -4)
- **16.** (-6, 0), (0, -24)
- **17.** (0, 5), (-1.5, 1)
- **18.** (0, 3), (-5, 2.5)

In Exercises 19–24, write a linear function f with the given values. (See Example 4.)

- **19.** f(0) = 2, f(2) = 4
- **20.** f(0) = 7, f(3) = 1
- **21.** f(4) = -3, f(0) = -2
- **22.** f(5) = -1, f(0) = -5
- **23.** f(-2) = 6, f(0) = -4
- **24.** f(0) = 3, f(-6) = 3

In Exercises 25 and 26, write a linear function f with the given values.

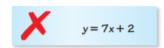
25.



26.

x	f(x)
-4	-2
-2	-1
0	0

27. ERROR ANALYSIS Describe and correct the error in writing an equation of the line with a slope of 2 and a y-intercept of 7.



ERROR ANALYSIS Describe and correct the error in writing an equation of the line shown.

