

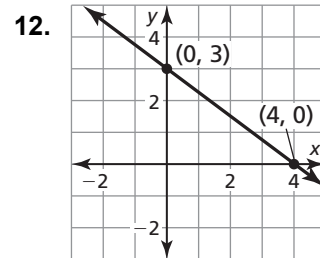
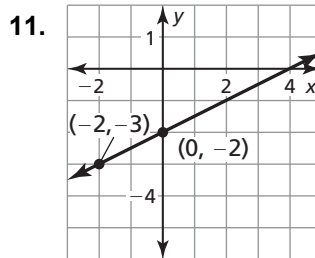
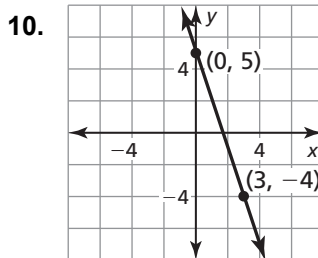
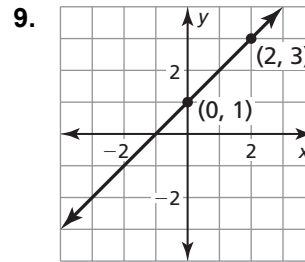
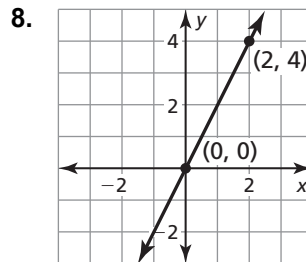
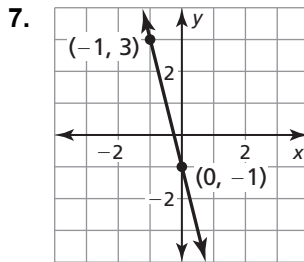
**4.1** Notetaking with Vocabulary (continued)

**Extra Practice**

In Exercises 1–6, write an equation of the line with the given slope and y-intercept.

- |                                |                                |   |
|--------------------------------|--------------------------------|---|
| 1. slope: 0<br>y-intercept: 9  | 2. slope: -1<br>y-intercept: 0 | 3. slope: 2<br>y-intercept: -3            |
| 4. slope: -3<br>y-intercept: 7 | 5. slope: 4<br>y-intercept: -2 | 6. slope: $\frac{1}{3}$<br>y-intercept: 2 |

In Exercises 7–12, write an equation of the line in slope-intercept form.



**4.1** Notetaking with Vocabulary (continued)

In Exercises 13–18, write an equation of the line that passes through the given points.

13.  $(0, -4), (8, 4)$

14.  $(2, 1), (0, -7)$

15.  $(0, 2), (4, 3)$

16.  $(0, -5), (-4, -1)$

17.  $(8, 0), (0, 8)$

18.  $(0, 3), (2, -5)$

In Exercises 19–24, write a linear function  $f$  with the given values.

19.  $f(0) = -5, f(4) = -3$

20.  $f(-5) = 5, f(0) = 10$

21.  $f(0) = 5, f(9) = -4$

22.  $f(0) = 10, f(7) = -4$

23.  $f(-2) = -2, f(0) = 2$

24.  $f(0) = 16, f(2) = 8$

25. An electrician charges an initial fee of \$50 and \$190 after 4 hours of work.

a. Write a linear model that represents the total cost as a function of the number of hours worked.

b. How much does the electrician charge per hour?