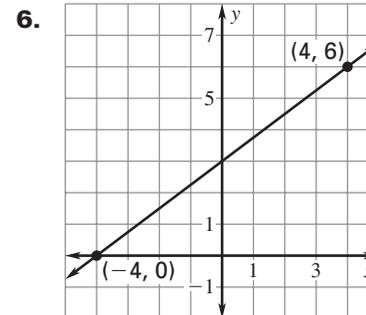
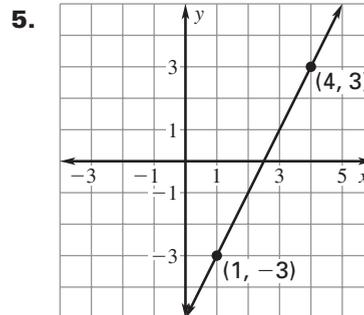
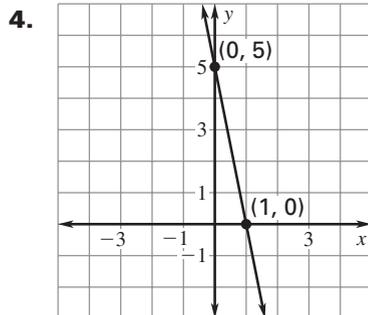


LESSON
5.1**Practice B**

For use with pages 282–291

Write an equation of the line with the given slope and y-intercept.

1. slope: 7; y-intercept: 4 2. slope: -3 ; y-intercept: 5 3. slope: 1; y-intercept: -6

Write an equation of the line shown.**Write an equation of the line that passes through the given points.**

7. $(-1, 0), (0, -2)$ 8. $(0, 4), (6, 13)$ 9. $(4, 5), (8, 2)$
10. $(-1, -9), (6, 5)$ 11. $(2, -13), (-3, 12)$ 12. $(-4, -21), (1, -1)$

Write an equation for the linear function f with the given values.

13. $f(0) = -1, f(3) = -10$ 14. $f(-4) = 5, f(2) = 2$ 15. $f(-4) = -2, f(2) = 7$

16. **Landscape Supply** A landscape supply business charges \$30 to deliver mulch. The mulch costs \$23 per cubic yard.

- Write an equation that gives the total cost (in dollars) of having mulch delivered to a site as a function of the number of cubic yards ordered.
- Identify the dependent and independent variables in this situation.
- Find the cost of having 8 cubic yards of mulch delivered to a site.

17. **Cable Television** A cable company charges \$44 per month for basic service. Each premium channel costs an additional \$16 per month.

- Write an equation that gives the total cost (in dollars) of cable each month as a function of the number of premium channels.
- Identify the dependent and independent variables in this situation.
- Explain how you can use the equation from part (a) to approximate how many premium channels you can have for \$80 a month.

18. **Laser Printer** A laser printer has a “sleep” mode that is an energy-saving feature. When a job is sent to the printer, it takes 45 seconds for the printer to warm up and then the printer prints pages at a rate of 6 pages per minute.

- Write the time it takes the printer to warm up in minutes.
- Write an equation that gives the total amount of time (in minutes) it takes the printer to warm up and print a job as a function of the number of pages in the job.
- Find out how long it takes the printer to print a 50-page job if it must first warm up.