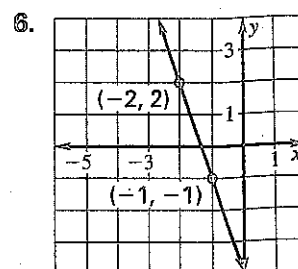
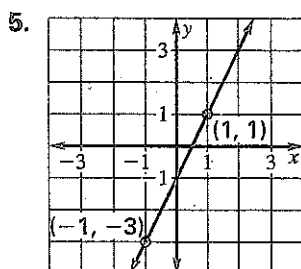
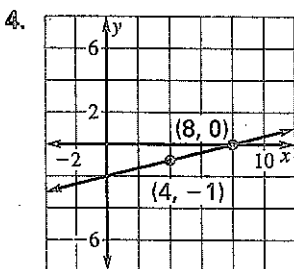
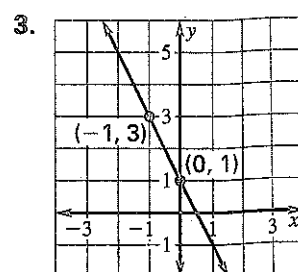
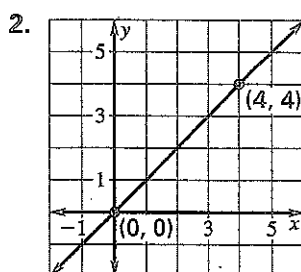
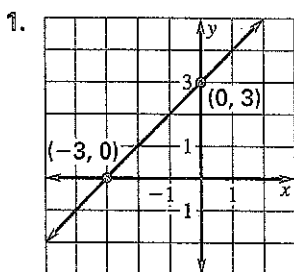


Practice A

For use with pages 285–290

Write an equation in slope-intercept form of the line shown in the graph.



Write an equation in slope-intercept form of the line that passes through the points.

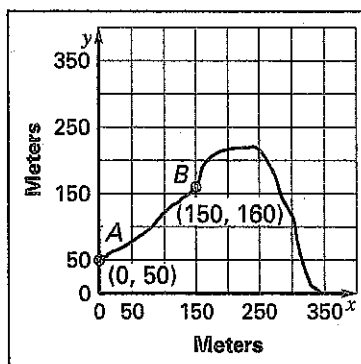
- | | | |
|-------------------------|----------------------------|-----------------------|
| 7. $(0, 0), (3, -6)$ | 8. $(0, 4), (-1, 3)$ | 9. $(-5, 9), (-2, 0)$ |
| 10. $(0, 2), (-2, 0)$ | 11. $(5, 0), (-10, -5)$ | 12. $(1, 1), (3, 3)$ |
| 13. $(1, -7), (3, -15)$ | 14. $(-6, -2), (-10, -14)$ | 15. $(2, 3), (6, 11)$ |

16. **Learning a Language** By the end of your 5th French lesson you have learned 20 vocabulary words. Write an equation that gives the number of vocabulary words you know, y , in terms of the number of lessons you have had, x . Assume you learned the same number of words each lesson.

17. **United Nations** In 1945, when the United Nations was formed, there were 51 member nations. In 1987, there were 159 member nations. Write an equation that gives the number of nations in the UN, y , in terms of the year, t . Let $t = 0$ correspond to 1945 and assume that membership followed a linear pattern.

18. **Diving** Leslie dives off a block at the edge of the pool. She enters the water 8 ft from the side of the pool. Leslie is 1 ft under water when she is 11 ft from the side of the pool. Write an equation that gives Leslie's depth, y , in terms of her distance, x , from the side.

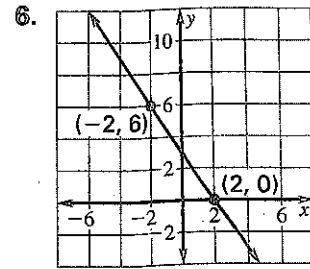
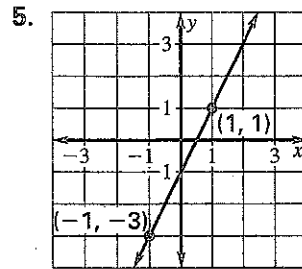
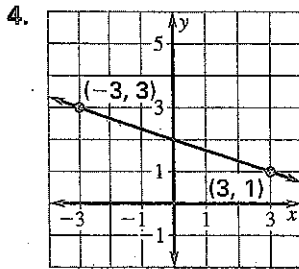
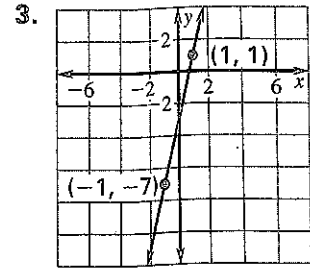
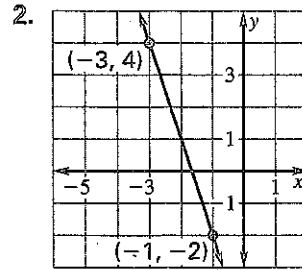
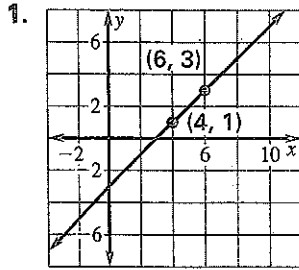
19. **Nature Hike** Use the diagram at the right to write the equation of the line from point A to point B. What is the slope of this line?



Practice B

For use with pages 285–290

Write an equation in slope-intercept form of the line shown in the graph.



Write an equation in slope-intercept form of the line that passes through the points.

- | | | |
|---|------------------------------------|---|
| 7. $(0, 8), (-1, 3)$ | 8. $(-7, 9), (-5, -3)$ | 9. $(3, 2), (7, 5)$ |
| 10. $(4, 2), (3, 5)$ | 11. $(-5, -6), (2, 8)$ | 12. $(-5, 6), (-6, 1)$ |
| 13. $(\frac{1}{2}, -1), (3, \frac{3}{2})$ | 14. $(6.22, -3.75), (-1.78, 0.25)$ | 15. $(\frac{1}{8}, \frac{7}{8}), (\frac{3}{4}, -\frac{5}{4})$ |

16. Write equations of the lines passing through the two parallel sides. How do you know mathematically that these two sides are parallel?
17. **Driving** You drove to your cousin's house, which is 460 miles away. After two hours, you had gone 100 miles. After 8 hours, you had reached your destination. Write an equation that gives the number of miles you had driven, y , in terms of the number of hours you had driven, t .

