LESSON 4.4

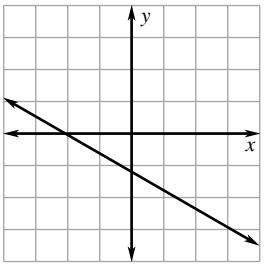
NAME _____ DATE _____

Practice A

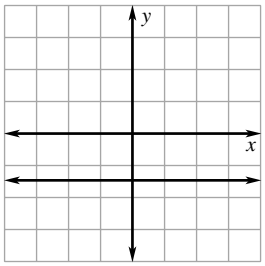
For use with pages 226–233

State whether the slope of the line is *positive, negative, zero,* or *undefined*.

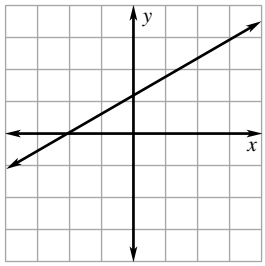
1.



2.



3.



Plot the points and draw a line through them. Without calculating, state whether the slope of the line is *positive, negative, zero,* or *undefined*.

4. $(2, 4), (5, 2)$

5. $(2, -5), (2, 4)$

6. $(4, 1), (6, 7)$

7. $(-3, 5), (2, 5)$

8. $(1, -4), (-2, 3)$

9. $(-4, 2), (0, 5)$

10. $(2, -3), (-4, -3)$

11. $(-5, 1), (5, -1)$

12. $(-1, 3), (-1, -2)$

Find the slope of the line passing through the given points.

13. $(1, 5), (2, 9)$

14. $(2, 4), (1, 1)$

15. $(4, 1), (2, 7)$

16. $(2, 3), (4, 3)$

17. $(0, 4), (-2, 8)$

18. $(6, -8), (6, 4)$

19. $(3, 7), (-9, -5)$

20. $(-2, 3), (4, -1)$

21. $(-5, 2), (2, -4)$

22. $(3, -1), (-6, -1)$

23. $(-3, -9), (-3, -1)$

24. $(-3, -2), (-1, -7)$

Find the value of *y* so that the line passing through the two points has the given slope.

25. $(1, y), (2, 4), m = 1$

26. $(4, y), (5, 3), m = 3$

27. $(-2, 4), (0, y), m = 2$

28. $(3, 5), (1, y), m = -2$

29. $(-2, y), (0, 3), m = -\frac{1}{2}$

30. $(4, -2), (-1, y), m = 1$

31. $(1, 5), (10, y), m = -4$

32. $(-3, 6), (-4, y), m = 5$

33. $(-4, 8), (8, y), m = -9$

In Exercises 34–39, find the rate of change between the two points. Give the units of measure for the rate.

34. $(4, 10)$ and $(6, 15)$; x in minutes, y in miles

35. $(3, 5)$ and $(11, 69)$; x in years, y in dollars

36. $(7, 21)$ and $(14, 42)$; x in days, y in gallons

37. $(1, 2)$ and $(8, 16)$; x in weeks, y in pounds

38. $(4, 100)$ and $(8, 200)$; x in gallons, y in miles

39. $(8, 1)$ and $(4, 2)$; x in months, y in inches