61. $y = -2x + 3$

62. $y = -3x + 2$

63. $y = -3$

64. $y = 2$

65. $x = 2$

66. $x = -4$

67. $2x + y = 5$

68. $3x + y = 5$

69. $x + 2y = 4$

70. $x - 2y = 6$

71. $x - 3y = 6$

72. $x + 4y = 5$

73. $y = 0.36x + 0.4$

74. $y = 0.27x - 0.42$

Graph each equation. Plot at least five points for each equation. Use graph paper. See Example 6. If you have a graphing calculator, use it to check your graphs.

75. $y = x + 1200$

76. $y = 2x - 3000$

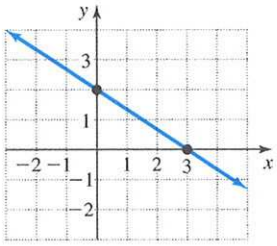
77. $y = 50x - 2000$

78. $y = -300x + 4500$

1 Slope

In Exercises 7–18, find the slope of each line. See Examples 1 and 2.

7.



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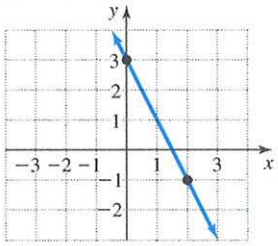

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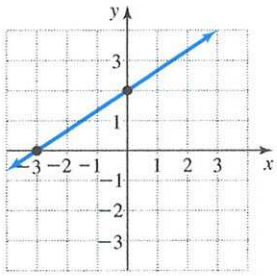

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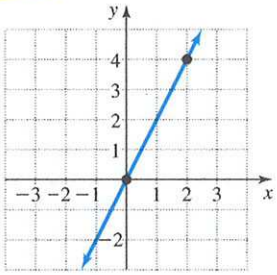
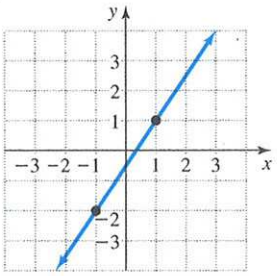


VIDEO **11.**



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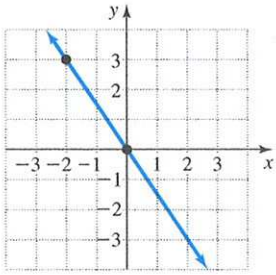

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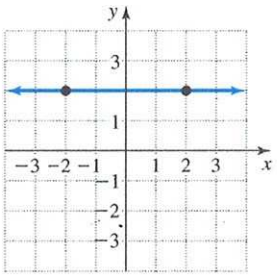

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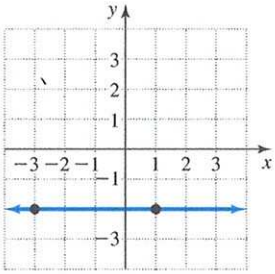

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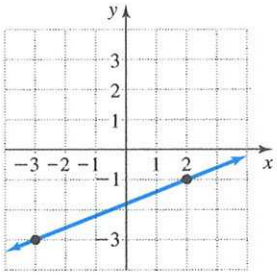

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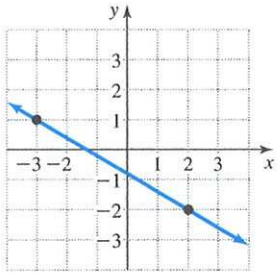
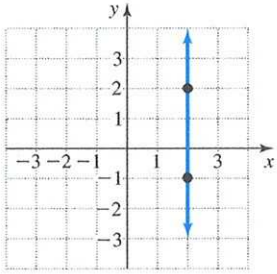
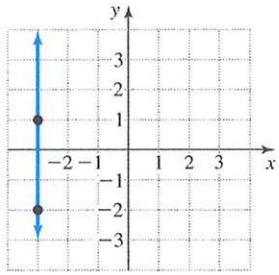


VIDEO **17.**



18.



2 Slope Using Coordinates

Find the slope of the line that goes through each pair of points. See Examples 3 and 4.

19. (1, 2), (3, 6)

20. (2, 7), (3, 10)

21. (2, 5), (6, 10)

22. (5, 1), (8, 9)

23. (2, 4), (5, −1)

24. (3, 1), (6, −2)

25. (−2, 4), (5, 9)

VIDEO **26.** (−1, 3), (3, 5)

27. (−2, −3), (−5, 1)

28. (−6, −3), (−1, 1)

29. (−3, 4), (3, −2)

30. (−1, 3), (5, −2)

31. $\left(\frac{1}{2}, 2\right), \left(-1, \frac{1}{2}\right)$

32. $\left(\frac{1}{3}, 2\right), \left(-\frac{1}{3}, 1\right)$

33. (2, 3), (2, −9)

34. (−3, 6), (8, 6)

35. (−2, −5), (9, −5)

36. (4, −9), (4, 6)

37. (0.3, 0.9), (−0.1, −0.3)

38. (−0.1, 0.2), (0.5, 0.8)