

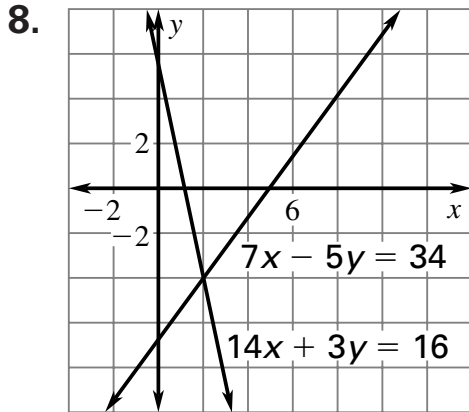
ANSWERS FOR 3.1

For use with pages 142–145

3.1 Guided Practice

2. *Sample answer:* If the graph consists of two nonparallel lines, then there is a single solution. If the graph consists of two parallel lines, there is no solution. If the graph of two lines coincide, there are infinitely many solutions.

4. no 6. yes



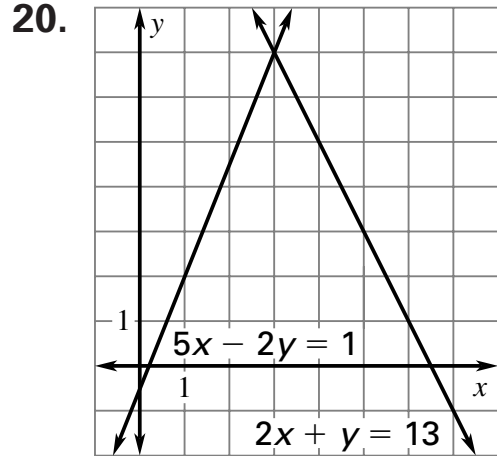
one solution

10. (2, 3)

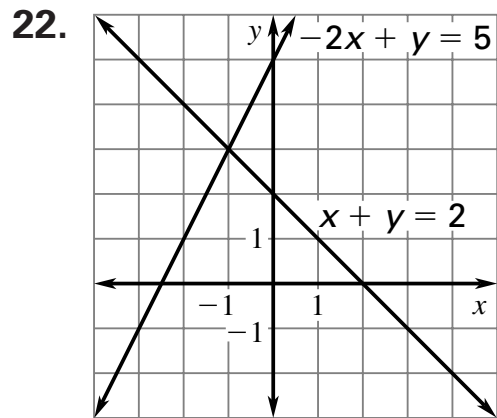
3.1 Practice and Applications

12. no 14. yes

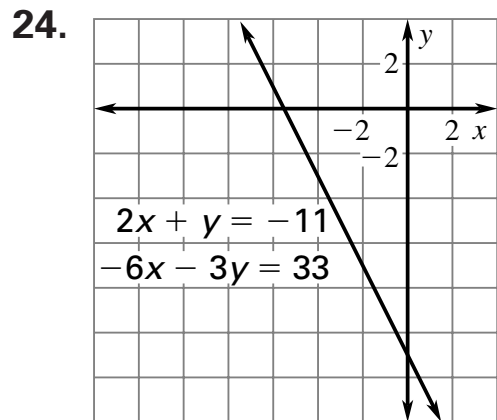
16. yes 18. yes



(3, 7)



(-1, 3)

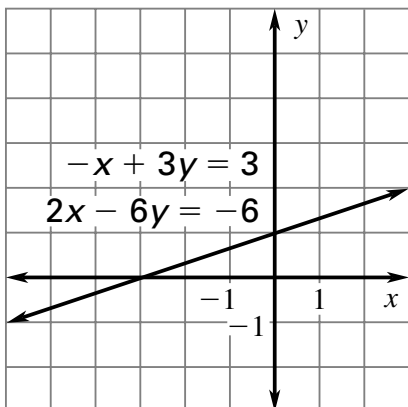


Sample answer: (-5, -1)

ANSWERS FOR 3.1 (CONT.)

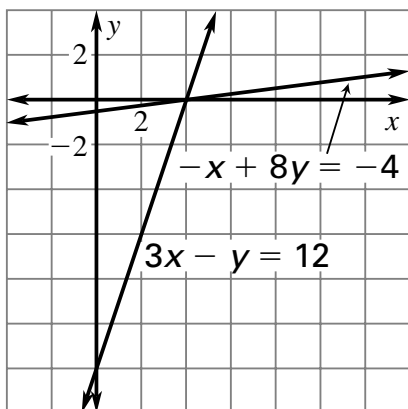
For use with pages 142–145

26.



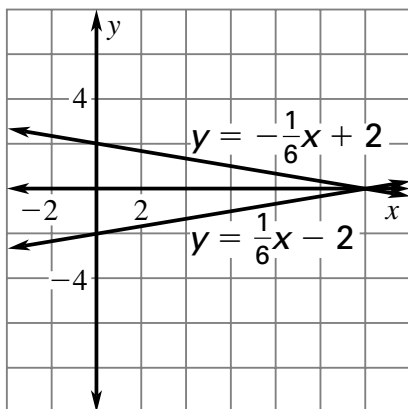
Sample answer: (6, 3)

28.



(4, 0)

30.



(12, 0)

32. Infinitely many solutions; the two lines coincide.

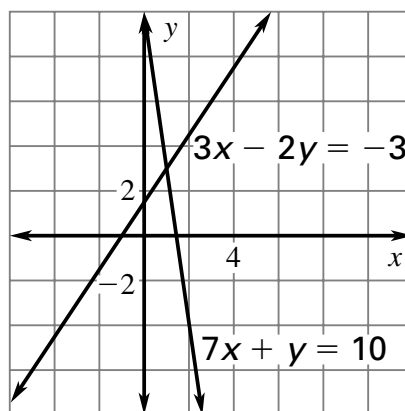
34. One solution; the two lines intersect in a single point.

36. F

38. D

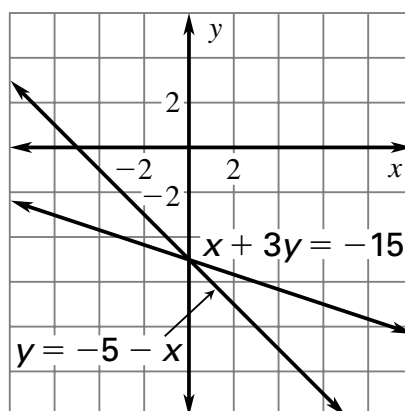
40. C

42. one solution



(1, 3)

44. one solution

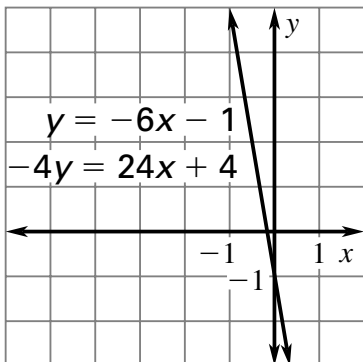


(0, -5)

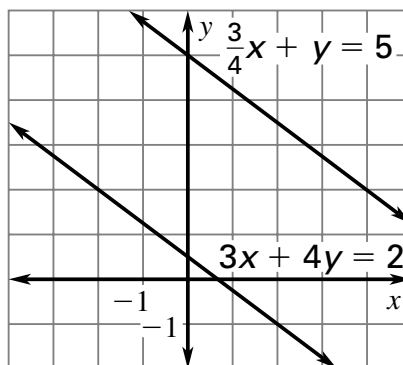
ANSWERS FOR 3.1 (CONT.)

For use with pages 142–145

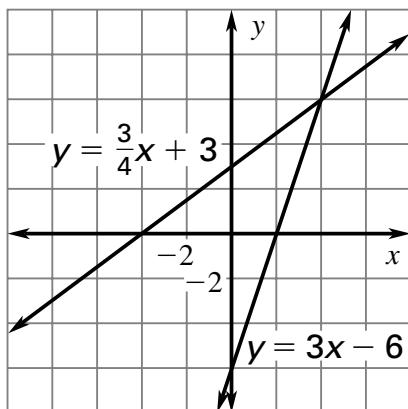
46. infinitely many solutions



52. no solution



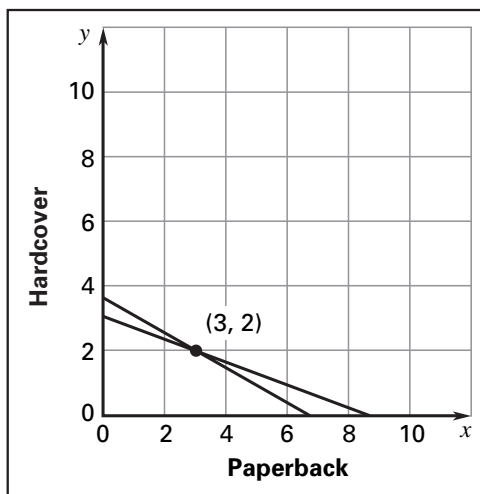
48. one solution



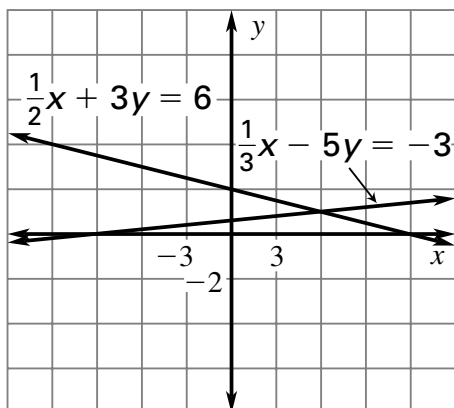
(4, 6)

54. $6.95x + 19.95y = 60.75$
 $2x + 4y = 14$

You ordered 3 paperbacks
 and 2 hardcovers.



50. one solution



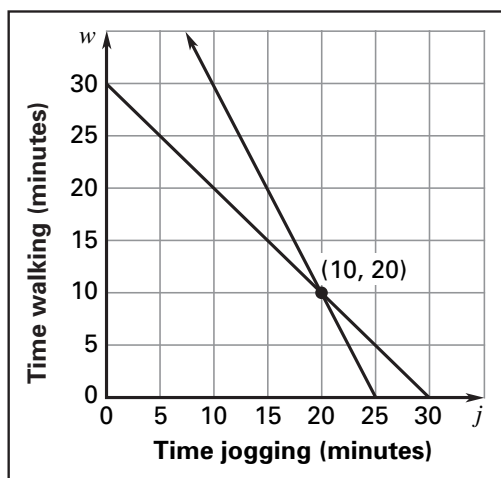
(6, 1)

ANSWERS FOR 3.1 (CONT.)

For use with pages 142–145

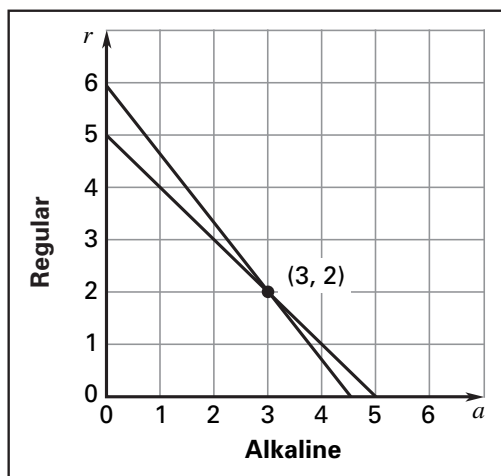
56. $j + w = 30$
 $0.1j + 0.05w = 2.5$

10 minutes walking
 20 minutes jogging



58. $r + a = 5$
 $4.25r + 5.5a = 25$

3 packs of alkaline and
 2 packs of regular batteries



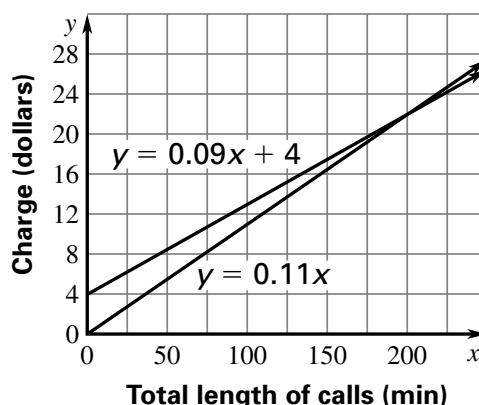
60. consistent and dependent

62. inconsistent

64. a. $y = 0.09x + 4$
 $y = 0.11x$

b. (200, 22)

Long-Distance Phone Service



c. *Sample answer:* It represents a charge of \$22 for 200 minutes long-distance service. If you make more than 200 minutes of long-distance calls most months, then the first company with a 9¢ per minute charge is less. If you call long distance less than 200 minutes most months, then the second, with no monthly service charge, is less expensive.

ANSWERS FOR 3.1 (CONT.)

For use with pages 142–145

3.1 Mixed Review

66. 7

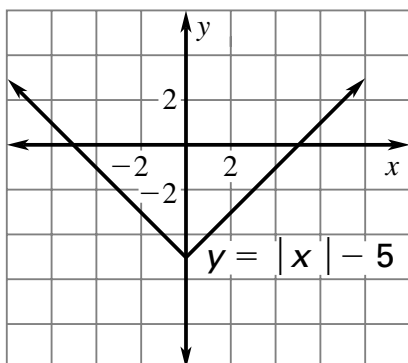
68. 8

70. -24

72. no; yes

74. yes; yes

76.



78.

