Practice 7-1

Solving Systems by Graphing

Solve by graphing. Write *no solution* or *infinitely many solutions*
where appropriate.

1. $y = 3x - 1$

$\quad y = -2x + 4$

2. $y = x - 1$

$\quad y = -x + 7$

3. $y = \frac{3}{4}x + 2$

$\quad \frac{3}{4}x - y = 4$

4. $y = 4x + 7$

$\quad y = -3x$

5. $y = x - 3$

$\quad y = \frac{1}{7}x + 3$

6. $y = -3x - 4$

$\quad 3x + y = -4$

7. $y = -x - 3$

$\quad y = -2x - 8$

8. $y = -x + 2$

$\quad 3x + 3y = 12$

9. $y = x$

$\quad y = 3x + 2$

10. $y = 4x - 3$

$\quad y = -3x - 3$

11. $y = \frac{5}{3}x - 4$

$\quad y = 2x - 6$

12. $y = 3x + 2$

$\quad 2x + y = -8$

13. $x = y + 4$

$\quad y = x + 4$

14. $x + y = 2$

$\quad y = -2x - 1$

15. $2x - y = 3$

$\quad y = x + 4$

16. $3x - 6y = 12$

$\quad 2x - 4y = 8$

17. $x - y = 1$

$\quad y = \frac{3}{4}x + 1$

18. $y = x$

$\quad x = 2y + 2$

19. $3x - y = 9$

$\quad y = x + 1$

20. $2x + y = 0$

$\quad y = 2x - 4$

21. $y = 2x - 6$

$\quad x + y = 9$

22. $y = -x$

$\quad y = 3x + 12$

23. $4x + y = 6$

$\quad y = -4x - 1$

24. $y = 4x$

$\quad y = -3x$

25. $y = x$

$\quad 2x + y = \frac{3}{2}$

26. $3x + y = 6$

$\quad 2x - y = \frac{3}{2}$

27. $\quad x + 4y = -\frac{1}{2}$

$\quad -2x - 3y = 1$

28. $\quad x - y = -\frac{3}{2}$

$\quad -2x + 5y = -4.5$

Solve each system by using a graphing calculator. Write *no solution* or
infinitely many solutions where appropriate.

29. $y = x + 6$

$\quad y = 2x - 7$

30. $y = \frac{7}{2}x - 6$

$\quad y = 3x - 2$

31. $y = 2x - 20$

$\quad y = -x + 34$

32. $y = \frac{2}{3}x + 4$

$\quad 2x - 3y = 3$

33. $y = -x - 5$

$\quad y = 3x - 105$

34. $x + y = -10$

$\quad 2x + 3y = -30$

35. $3x - 4y = 0$

$\quad 2x + y = 110$

36. $y = \frac{1}{7}x + 10$

$\quad x - 2y = 0$

37. $2x + y = 6$

$\quad 3y = -6x + 9$

38. $y = \frac{5}{6}x + 12$

$\quad y = \frac{4}{3}x - 6$

39. $2x - y = 8$

$\quad 3x - 2y = 0$

40. $\quad x + 2y = 2$

$\quad 3x + 4y = 22$

41. $y = 2x + 0.75$

$\quad y = -4x - 8.25$

42. $1.25x + 3.25y = -5.75$

$\quad 0.5x - 1.5y = 0.5$

43. $x = -2y - 3.5$

$\quad -5x + 3y = -15$