

Practice 7-1

Solving Systems by Graphing

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

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|---|--|---|---|
| 1. $y = 3x - 1$
$y = -2x + 4$ | 2. $y = x - 1$
$y = -x + 7$ | 3. $y = \frac{3}{4}x + 2$
$\frac{3}{4}x - y = 4$ | 4. $y = 4x + 7$
$y = -3x$ |
| 5. $y = x - 3$
$y = \frac{1}{7}x + 3$ | 6. $y = -3x - 4$
$3x + y = -4$ | 7. $y = -x - 3$
$y = -2x - 8$ | 8. $y = -x + 2$
$3x + 3y = 12$ |
| 9. $y = x$
$y = 3x + 2$ | 10. $y = 4x - 3$
$y = -3x - 3$ | 11. $y = \frac{5}{3}x - 4$
$y = 2x - 6$ | 12. $y = 3x + 2$
$2x + y = -8$ |
| 13. $x = y + 4$
$y = x + 4$ | 14. $x + y = 2$
$y = -2x - 1$ | 15. $2x - y = 3$
$y = x + 4$ | 16. $3x - 6y = 12$
$2x - 4y = 8$ |
| 17. $x - y = 1$
$y = \frac{3}{4}x + 1$ | 18. $y = x$
$x = 2y + 2$ | 19. $3x - y = 9$
$y = x + 1$ | 20. $2x + y = 0$
$y = 2x - 4$ |
| 21. $y = 2x - 6$
$x + y = 9$ | 22. $y = -x$
$y = 3x + 12$ | 23. $4x + y = 6$
$y = -4x - 1$ | 24. $y = 4x$
$y = -3x$ |
| 25. $y = x$
$2x + y = \frac{3}{2}$ | 26. $3x + y = 6$
$2x - y = \frac{3}{2}$ | 27. $x + 4y = -\frac{1}{2}$
$-2x - 3y = 1$ | 28. $x - y = -\frac{3}{2}$
$-2x + 5y = -4.5$ |

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

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| 29. $y = x + 6$
$y = 2x - 7$ | 30. $y = \frac{7}{2}x - 6$
$y = 3x - 2$ | 31. $y = 2x - 20$
$y = -x + 34$ |
| 32. $y = \frac{2}{3}x + 4$
$2x - 3y = 3$ | 33. $y = -x - 5$
$y = 3x - 105$ | 34. $x + y = -10$
$2x + 3y = -30$ |
| 35. $3x - 4y = 0$
$2x + y = 110$ | 36. $y = \frac{1}{7}x + 10$
$x - 2y = 0$ | 37. $2x + y = 6$
$3y = -6x + 9$ |
| 38. $y = \frac{5}{6}x + 12$
$y = \frac{4}{3}x - 6$ | 39. $2x - y = 8$
$3x - 2y = 0$ | 40. $x + 2y = 2$
$3x + 4y = 22$ |
| 41. $y = 2x + 0.75$
$y = -4x - 8.25$ | 42. $1.25x + 3.25y = -5.75$
$0.5x - 1.5y = 0.5$ | 43. $x = -2y - 3.5$
$-5x + 3y = -15$ |