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Practice 7-2

Solving Systems Using Substitution

Solve each system using substitution. Write *no solution* or *infinitely many* solutions where appropriate.

1. $y = x$	2. $y = x + 4$	3. $y = 3x - 10$
y = -x + 2	y = 3x	y = 2x - 5
4. $x = -2y + 1$	5. $y = 5x + 5$	6. $y = x - 3$
x = y - 5	y = 15x - 1	y = -3x + 25
7. $y = x - 7$	8. $y = 3x - 6$	9. $x + 2y = 200$
2x + y = 8	-3x + y = -6	x = y + 50
10. $3x + y = 10$	11. $y = 2x + 7$	12. $3x - 2y = 0$
y = -3x + 4	y = 5x + 4	x + y = -5
13. $4x + 2y = 8$	14. $6x - 3y = 6$	15. $2x + 4y = -6$
y = -2x + 4	y = 2x + 5	x - 3y = 7
16. $5x - 3y = -4$	17. $y = -\frac{2}{3}x + 4$	18. $2x + 3y = 8$
x + y = -4	2x + 3y = -6	$\frac{3}{2}y = 4 - x$
19. $3x - y = 4$	20. $x + y = 0$	2 ^y 2 ^y 2 ^x 2 21. $5x + 2y = 6$
2x + y = 16	x = y + 4	$y = -\frac{3}{2}x + 1$
22. $2x + 5y = -6$	23. $4x + 3y = -3$	24. $y = -\frac{2}{3}x + 1$
4x + y = -12	2x + y = -1	4x + 6y = 6
25. $5x - 6y = 19$ 4x + 3y = 10	26. $2x + y = 6.6$ 5x - 2y = 0.3	27. 2x - 4y = 3.8 3x - y = 17.7
28. $3x + 4y = 8$	29. $3x - 4y = -5$	30. $y = \frac{1}{3}x + 10$
4.5x + 6y = 12	x = y + 2	x = 3y + 6
31. $2x + 5y = 62$	32. $-5x + y = 6$	33. $x = \frac{3}{4}y - 6$
3x - y = 23.3 34. $5x + 6y = -76$	2x - 3y = 60 35. $3x - 2y = 10$	$y = \frac{4}{3}x + 8$ 36. $-3x + 2y = -6$
x + 2y = -44	$y = \frac{3}{2}x - 1$	-2x + y = 6

37. At an ice cream parlor, ice cream cones cost \$1.10 and sundaes cost \$2.35. One day, the receipts for a total of 172 cones and sundaes were \$294.20. How many cones were sold?

38. You purchase 8 gal of paint and 3 brushes for \$152.50. The next day, you purchase 6 gal of paint and 2 brushes for \$113.00. How much does each gallon of paint and each brush cost?

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