

Practice 7-3

Solving Systems Using Elimination

Solve by elimination. Show your work.

1. $x + 2y = 7$
 $3x - 2y = -3$
2. $3x + y = 20$
 $x + y = 12$
3. $5x + 7y = 77$
 $5x + 3y = 53$
4. $2x + 5y = -1$
 $x + 2y = 0$
5. $3x + 6y = 6$
 $2x - 3y = 4$
6. $2x + y = 3$
 $-2x + y = 1$
7. $9x - 3y = 24$
 $7x - 3y = 20$
8. $2x + 7y = 5$
 $2x + 3y = 9$
9. $x + y = 30$
 $x - y = 6$
10. $4x - y = 6$
 $3x + 2y = 21$
11. $x + 2y = 9$
 $3x + 2y = 7$
12. $3x + 5y = 10$
 $x - 5y = -10$
13. $2x - 3y = -11$
 $3x + 2y = 29$
14. $8x - 9y = 19$
 $4x + y = -7$
15. $2x + 6y = 0$
 $-2x - 5y = 0$
16. $-2x + 3y = -9$
 $x + 3y = 3$
17. $4x - 3y = 11$
 $3x - 5y = -11$
18. $3x + 7y = 48$
 $5x - 7y = -32$
19. $-2x + 3y = 25$
 $-2x + 6y = 58$
20. $3x + 8y = 81$
 $5x - 6y = -39$
21. $8x + 13y = 179$
 $2x - 13y = -69$
22. $-x + 8y = -32$
 $3x - y = 27$
23. $2x + 7y = -7$
 $5x + 7y = 14$
24. $x + 6y = 48$
 $-x + y = 8$
25. $6x + 3y = 0$
 $-3x + 3y = 9$
26. $7x + 3y = 25$
 $-2x - y = -8$
27. $3x - 8y = 32$
 $-x + 8y = -16$
28. $4x - 7y = -15$
 $-4x - 3y = -15$
29. $5x + 7y = -1$
 $4x - 2y = 22$
30. $6x - 3y = 69$
 $7x - 3y = 76$
31. $x + 8y = 28$
 $-3x + 5y = 3$
32. $8x - 6y = -122$
 $-4x + 6y = 94$
33. $2x + 9y = 36$
 $2x - y = 16$
34. $-6x + 12y = 120$
 $5x - 6y = -48$
35. $-x + 3y = 5$
 $-x - 3y = 1$
36. $10x - 4y = 6$
 $10x + 3y = 13$
37. $6x + 3y = 27$
 $-4x + 7y = 27$
38. $6x - 8y = 40$
 $5x + 8y = 48$
39. $3x + y = 27$
 $-3x + 4y = -42$
40. $2x + 8y = -42$
 $-x + 8y = -63$
41. $5x + 9y = 112$
 $3x - 2y = 8$
42. $-3x + 2y = 0$
 $-3x + 5y = 9$
43. $8x - 2y = 58$
 $6x - 2y = 40$
44. $7x - 9y = -57$
 $-7x + 10y = 68$
45. $9x + 3y = 2$
 $-9x - y = 0$
46. Shopping at Savers Mart, Lisa buys her children four shirts and three pairs of pants for \$85.50. She returns the next day and buys three shirts and five pairs of pants for \$115.00. What is the price of each shirt and each pair of pants?
47. Grandma's Bakery sells single-crust apple pies for \$6.99 and double-crust cherry pies for \$10.99. The total number of pies sold on a busy Friday was 36. If the amount collected for all the pies that day was \$331.64, how many of each type were sold?