

Practice 7-3

Solving Systems Using Elimination

Solve by elimination. Show your work.

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|--|---|--|
| 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?