8-4

Practice

Elimination Using Multiplication

Use elimination to solve each system of equations.

1. $2x + 5y = 3$
$-x + 3y = -7$

2. $2x + y = 3$
$-4x - 4y = -8$

3. $5x - 2y = -10$
$3x + 6y = 66$

4. $7x + 4y = -4$
$5x + 8y = 28$

5. $4x - 2y = -14$
$3x - y = -8$

6. $5x + 3y = -10$
$3x + 5y = -6$

7. $2x + y = 0$
$5x + 3y = 2$

8. $9x - 6y = -12$
$x + 2y = 0$

9. $0.5x + 0.5y = -2$
$x - 0.25y = 6$

Use a system of equations and elimination to solve each problem.

10. The sum of the digits of a two-digit number is 11. If 45 is added to the number, the result is the number with the digits reversed. Find the number.

11. Suppose you invested $10,000, part at 6% annual interest and the rest at 9% annual interest. If you received $684 in interest after one year, how much did you invest at each rate?

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