



Practice

7.3 The Elimination Method

Solve each system of equations by elimination, and check your solutions.

1. $\begin{cases} x + y = 10 \\ x - y = 2 \end{cases}$ _____

2. $\begin{cases} x - 3y = -13 \\ -x + 4y = 15 \end{cases}$ _____

3. $\begin{cases} 4x + 2y = 2 \\ 5x + 2y = 4 \end{cases}$ _____

4. $\begin{cases} 5x - 2y = 3 \\ 5x + y = -9 \end{cases}$ _____

5. $\begin{cases} 3x + 2y = 8 \\ 2x - 6y = 42 \end{cases}$ _____

6. $\begin{cases} x + 2y = -1 \\ 4x + 3y = -9 \end{cases}$ _____

7. $\begin{cases} 3x + 4y = 22 \\ x - 5y = -37 \end{cases}$ _____

8. $\begin{cases} 2x + y = -1 \\ 7x - 5y = 5 \end{cases}$ _____

9. $\begin{cases} 2x - 5y = -19 \\ 3x + 2y = 0 \end{cases}$ _____

10. $\begin{cases} 4x + 3y = 27 \\ 3x + 4y = 29 \end{cases}$ _____

11. $\begin{cases} 2x - 3y = 6 \\ x + 3y = 12 \end{cases}$ _____

12. $\begin{cases} x + 5y = -13 \\ 2x - 5y = -19 \end{cases}$ _____

13. $\begin{cases} x + y = 0 \\ 2x - y = 12 \end{cases}$ _____

14. $\begin{cases} 2x + 2y = -8 \\ 3x - 3y = 18 \end{cases}$ _____

15. $\begin{cases} x - 2y = 11 \\ 2x + 2y = -8 \end{cases}$ _____

16. $\begin{cases} 2x - y = -6 \\ 2x + 3y = 14 \end{cases}$ _____

Solve each system of equations by using any method.

17. $\begin{cases} 2x - 7y = 5 \\ 5x - 4y = -1 \end{cases}$ _____

18. $\begin{cases} 5x - 7y = -16 \\ 4x - 2y = -20 \end{cases}$ _____

19. $\begin{cases} x = 5y \\ 3x - 4y = 11 \end{cases}$ _____

20. $\begin{cases} 0.3x - 0.5y = 2 \\ 0.3x + y = -4 \end{cases}$ _____

21. $\begin{cases} \frac{1}{2}x + \frac{1}{3}y = 4 \\ -3y = x - 22 \end{cases}$ _____

22. $\begin{cases} \frac{2}{3}x + \frac{1}{4}y = 2 \\ 2x + y = 4 \end{cases}$ _____

23. $\begin{cases} 7x - 2y = 6 \\ 9x - 3y = 6 \end{cases}$ _____

24. $\begin{cases} 0.7x - 1.6y = 15 \\ 0.3x + 0.4y = 1 \end{cases}$ _____