

3.5 Elimination Method – Solving Systems of Equations

Solutions

Practice

Algebra 1

Which method would be best for solving this system, Substitution or Elimination? Circle the part of the system that justifies your answer.

1. $\begin{cases} 3x + 9y = 9 \\ x + 3y = 3 \end{cases}$

Substitution

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

Elimination

3. $\begin{cases} 4x - 3y = -14 \\ 6x + 3y = -9 \end{cases}$

Elimination

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

Substitution

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

Substitution

6. $\begin{cases} 3x - 13y = -11 \\ 5x - y = 5 \end{cases}$

Substitution

7. $\begin{cases} 6x - 2y = 12 \\ -4x - 5y = 8 \end{cases}$

Elimination

8. $\begin{cases} 3x + 4y = 10 \\ 5x - 4y = 8 \end{cases}$

Elimination

Solve each system of equations using ELIMINATION.

9. $\begin{cases} 3x - 4y = -2 \\ 4x + 2y = -10 \end{cases}$

$$\begin{array}{r} 3x - 4y = -2 \\ + \quad 8x + 4y = -20 \\ \hline 11x = -22 \\ x = -2 \end{array}$$

$$\begin{array}{r} 4(-2) + 2y = -10 \\ -8 + 2y = -10 \\ 2y = -2 \\ y = -1 \end{array}$$

10. $\begin{cases} -8x - 5y = -9 \\ 8x - 4y = 36 \end{cases}$

$$\begin{array}{r} -8x - 5y = -9 \\ + \quad 8x - 4y = 36 \\ \hline -9y = 27 \\ y = -3 \end{array}$$

$$\begin{array}{r} 2x - (-3) = 9 \\ 2x + 3 = 9 \\ 2x = 6 \\ x = 3 \end{array}$$

11. $\begin{cases} 3x - 2y = 2 \\ 7x + y = -1 \end{cases}$

$$\begin{array}{r} 3x - 2y = 2 \\ + \quad -7x + y = -1 \\ \hline -4x - y = 1 \\ \end{array}$$

$$\begin{array}{r} 3(-1) - y = 1 \\ -3 - y = 1 \\ -y = 4 \\ y = -4 \end{array}$$

12. $\begin{cases} 2x + 6y = 14 \\ x + 3y = 7 \end{cases}$

$$\begin{array}{r} 2x + 6y = 14 \\ + \quad -2x - 6y = -14 \\ \hline 0 = 0 \end{array}$$

Infinite Solutions

13. $\begin{cases} 2x + 6y = -2 \\ x - 2y = 5 \end{cases}$

$$\begin{array}{r} 2x + 6y = -2 \\ + \quad 3x - 6y = 15 \\ \hline 5x = 13 \\ x = \frac{13}{5} \end{array}$$

$$\begin{array}{r} \frac{13}{5} - 2y = \frac{-2}{5} \\ (-\frac{1}{2}) \cdot -2y = \frac{13}{5} \cdot (-\frac{1}{2}) \\ y = -\frac{6}{5} \end{array}$$

14. $\begin{cases} 4x - 3y = -2 \\ x + 3y = 8 \end{cases}$

$$\begin{array}{r} 4x - 3y = -2 \\ + \quad -4x + 6y = -8 \\ \hline 3y = -10 \\ y = -\frac{10}{3} \end{array}$$

No Solution

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