

Objective: Solving systems of Equations

For a tutorial on how to solve systems of equations, please visit:

Substitution: http://www.youtube.com/watch?v=cwHR_B9zK7kElimination: <http://www.youtube.com/watch?v=0EVARO3sBZ0>

Solve each system of equations below.

$$\begin{aligned}1. \quad 8y - x &= 1 \\10y &= x + 5\end{aligned}$$

$$\begin{aligned}2. \quad 5y &= 2 - 6x \\y - 2x &= 10\end{aligned}$$

$$\begin{aligned}3. \quad y + x &= -2 \\5x - 3y &= 22\end{aligned}$$

$$\begin{aligned}4. \quad y &= \frac{2}{3}x - 4 \\2x - 3y &= 10\end{aligned}$$

$$\begin{aligned}5. \quad 5x + 6y &= 2 \\2y &= x - 10\end{aligned}$$

$$\begin{aligned}6. \quad 2x + 3y &= 7 \\-3x - 5y &= -13\end{aligned}$$

$$\begin{aligned}7. \quad 8 - y &= 3x \\2y + 3x &= 5\end{aligned}$$

$$\begin{aligned}8. \quad 3y - 2x &= 12 \\2y &= x + 4\end{aligned}$$

$$\begin{aligned}9. \quad 3x - 2y &= -10 \\-2x + 2y &= -10\end{aligned}$$

$$\begin{aligned}10. \quad y &= 5x + 3 \\-2x - 4y &= 10\end{aligned}$$

$$\begin{aligned}11. \quad 2x + y &= -7y \\y &= x + 10\end{aligned}$$

$$\begin{aligned}12. \quad 3x &= -5y \\6x - 7y &= 17\end{aligned}$$

Check your answers !

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|-------------------------|--------------|------------|----------------|-------------|-------------------------|
| 1. (15, 2) | 2. (-3, 4) | 3. (2, -4) | 4. No solution | 5. (4, -3) | 6. (-4, 5) |
| 7. $(\frac{11}{3}, -3)$ | 8. (-12, -4) | 9. 4, -1) | 10. (-1, -2) | 11. (-8, 2) | 12. $(\frac{5}{3}, -1)$ |