

Section 5.2 – Solving Systems of Equations Using Substitution

Solve each solution algebraically using the substitution method and then check your answer. Show all your work neatly on another sheet of paper.

$$\begin{array}{lll} \text{a.} & \begin{cases} y = 2x + 1 \\ y = 4x - 1 \end{cases} & \text{b.} & \begin{cases} y = 2x - 10 \\ y = -x + 8 \end{cases} & \text{c.} & \begin{cases} y = 0.5x + 1 \\ y = 3.5x + 13 \end{cases} \\ 1. & \begin{cases} y = 2x - 6 \\ y = 5x - 30 \end{cases} & 2. & \begin{cases} y = 2x - 2 \\ y = 5x - 11 \end{cases} & 3. & \begin{cases} y = 5x + 2 \\ y = 3x + 4 \end{cases} \\ 4. & \begin{cases} y = 4x + 11 \\ y = x + 5 \end{cases} & 5. & \begin{cases} y = -3x + 11 \\ y = 2x - 9 \end{cases} & 6. & \begin{cases} y = 2x - 3 \\ y = 2x + 5 \end{cases} \end{array}$$

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