

Warm Up

Week 5

Solve by Substitution

$$\begin{aligned}
 & \bullet x = (2y - 7) \rightarrow x = 2(3) - 7 \quad \left. \begin{matrix} (-1, 3) \\ x, y \end{matrix} \right\} \\
 & 2x + 3y = 7 \\
 & 2(2y - 7) + 3y = 7 \\
 & 4y - 14 + 3y = 7 \\
 & 7y - 14 = 7 \\
 & \quad +14 \quad +14 \\
 & \quad \underline{7y} = \underline{21} \\
 & \quad \quad \underline{7} \quad \underline{7} \\
 & \quad \quad \quad y = 3
 \end{aligned}$$

$$\begin{aligned}
 & x = 6 - 7 \\
 & x = -1 \\
 & -1 = 2(3) - 7 \\
 & -1 = -1 \checkmark \\
 & 2(-1) + 3(3) = 7 \\
 & -2 + 9 = 7 \\
 & 7 = 7 \checkmark
 \end{aligned}$$

$$\therefore \text{Yes, } (-1, 3) \text{ is sol'n}$$

Homework Questions?

Are you the solution?

7.2 More Notes

(on Doc Cam)

7.2 Homework

7.2 Solving Systems of Equations by Substitution wkst #1-16

$$\begin{array}{l} (x, y) \\ (m, n) \end{array}$$