

M10 - 9.1 - Substitution Notes

Solve by Substitution

① $y = (x + 1)$

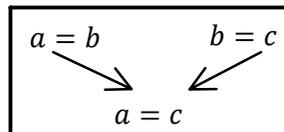
② $y = (-2x + 4)$

Identify equation # 1

Identify equation # 2

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

Make them equal to each other. Do it!



$x = 1$

Solve

① $y = x + 1$
 $y = (1) + 1$

Substitute

$y = 2$

Solve

$(1, 2)$

Intersection point

Solve by Graphing

$y = -2x + 4$

$y = x + 1$

