

**Example 1:**

$$\begin{aligned} y &= 5 - 2x \\ 5x - 6y &= 21 \end{aligned}$$

$$5x - 6(5 - 2x) = 21$$

$$5x - 30 + 12x = 21$$

$$\begin{array}{r} 17x - 30 = 21 \\ +30 \quad +30 \end{array}$$

$$\frac{17x}{17} = \frac{51}{17} \quad \boxed{x=3}$$

$$y = 5 - 2(3)$$

$$y = 5 - 6$$

$$\boxed{y = -1}$$

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

$$3x - (2x + 5) = 4$$

$$3x - 2x - 5 = 4$$

$$\begin{array}{r} x - 5 = 4 \\ +5 \quad +5 \end{array}$$

$$\boxed{x=9}$$

$$\text{Solution: } \underline{x=9, y=23}$$

$$y = 2(9) + 5$$

$$y = 18 + 5$$

$$\boxed{y=23}$$

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HW Due 1/26

Finish Substitution side (front)  
of Systems Worksheet

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