Example 1:

$$y = 5 - 2x$$
$$5x - 6y = 21$$

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

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

$$17x - 30 = 21$$
$$ +30 \quad +30$$
$$17x = 51 \quad \boxed{x = 3}$$
$$17 \quad\quad 17$$

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

$$y = 5 - 6$$

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

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2.

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

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

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

$$x - 5 = 4$$
$$+5 \quad +5$$
$$\boxed{x = 9}$$

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

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

$$y = 18 + 5$$

$$\boxed{y = 23}$$

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HW Due 1/26
Finish Substitution side (front)
of Systems Worksheet