**Rewriting an Equation**

**Solving for a variable when given two different variables:**

Solve for y: 2y + 5x = 6

Ex (1): 2y + 5x = 6 🡪 2y + 5x = 6 🡪 2y = 6 – 5x 🡪 2y = 6 – 5x 🡪 y = **6 – 5x**

 -5x -5x 2 2  **2**

 Equation 🡪 Isolate 2y, subtract 🡪 New 🡪 Isolate y, divide 🡪 Answer

 5x on both sides Equation by 2 both sides

Answer: 6 – 5x or 3 – 5x

 2 2

Solve for y: 7y + 6x = 4

Ex (2): 7y + 6x = 4 🡪 7y + 6x = 4 🡪 7y = 4 – 6x 🡪 7y = 4 – 6x 🡪 y = **4 – 6x**

 -6x -6x 7 7  **7**

Equation 🡪 Isolate 7y, subtract 🡪 New 🡪 Isolate y, divide 🡪 Answer

 6x on both sides Equation by 7 both sides

CFU:

1. 6y + x = 8
2. 10x – 5y = 15