**Lesson 7.1 – Equations With Variables On Both Sides**

*Prior Knowledge:*

**One Step Equations**

Ex 1: x + 3 = 5

- 3 = -3

X = 2

**Two Step Equations**

Ex 2: 3x + 3 = 12

-3 = -3

3x = 9

÷3 = ÷3

X = 3

**Steps to Solving Equations with Variables on both sides:**

1. Find the larger variable; get rid of the smaller variable
2. Isolate the variable; get rid of any number not attached to the variable
3. Solve for “x”

Ex. 3: 20 + 30x = 36 + 28x

Step 1: -28x - 28x

20 + 2x = 36

Step 2: -20 -20

2x = 16

Step 3: ÷2 ÷2

x = 8