**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**M8-U5: Notes #5 - Solving by Elimination Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

You have already developed some useful strategies for solving a simple linear equation like 3*x* + 5 = 10. You know that you can add or subtract the same quantity on both sides and preserve equality. The same is true for multiplication or division. These ideas, called the *Properties of Equality,* can help you develop another method for solving linear equations. This method involves combining separate linear equations (through the four basic operations) into one equation with only one variable. **Other names for this method are *Combination, Addition, or Elimination.***

**Examples:**

**1.**  **2.** 

**Try It!**

**a.  b.** 

**Examples:**

**3. ** **4.** 

**Try It!**

**a.**  **b.** 

Now let’s investigate some other systems that involve other uses of the elimination method.

**5.**  **6.** 

**Try It!**

**a.**  **b.** 