**5.4a Notes for Solving Systems of Equations by Elimination**

**Using Addition**

Sometimes you can eliminate one of the variables in an equation by adding or subtracting the two equations together. Using this method to solve a system of equations is called **elimination**.

**To solve by elimination you must:**

**1) Make sure the variable you want to eliminate has \_\_\_\_\_\_\_\_\_\_\_\_\_ signs.**

**2)** **Add** the two \_\_\_\_\_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_\_\_ the variable.

**3)** **Solve** for the remaining \_\_\_\_\_\_\_\_\_\_\_\_\_ in the combined \_\_\_\_\_\_\_\_\_\_\_\_.

**4)** **Plug** \_\_\_\_\_\_\_\_\_\_ into one of the ORIGINAL \_\_\_\_\_\_\_\_\_\_\_\_ to find the remaining \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**5) Write** \_\_\_\_\_\_\_\_\_\_\_\_\_\_ as an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (x, y).

**Solve the following systems of equations using elimination**

|  |  |
| --- | --- |
| **Example1)** | **Example 2)** |