Math 1 **Solving Systems by Elimination**

**Solving a System by Adding Equations**

What is the solution of the system? Use elimination. 

|  |  |
| --- | --- |
| **Step 1:** Eliminate one variable | **Step 2:** Substitute the solution for x to solve for the eliminated variable. |
|  |  |
| **Step 3:** Write your solution as a solution set. | |

What is the solution of each system? Use elimination.

1. 
2. 

**Solving a System by Multiplying One Equation**

What is the solution of the system? Use elimination. 

|  |  |
| --- | --- |
| **Step 1:** Multiply one equation to eliminate one variable | **Step 2:** Solve for the eliminated variable. Use either of the original equations. |
|  |  |
| **Step 3:** Write your solution as a solution set. | |

What is the solution of the system? Use elimination. 

**Solving a System by Multiplying Both Equations**

What is the solution of the system? Use elimination. 

|  |  |
| --- | --- |
| **Step 1:** Multiply each equation so you can eliminate one variable. | **Step 2:** Solve for the eliminated variable. Use either of the original equations. |
|  |  |
| **Step 3:** Write your solution as a solution set. | |

What is the solution of the system? Use elimination. 

**Finding the Number of Solutions**

How many solutions does the system have? Use elimination. 

How many solutions does the system have? Use elimination. 