**Solving Systems of Linear Equations – Substitution**

**Essential Question:** How can you use substitution to solve a system of linear equations?

**System of linear Equations:**

**Solution:**

**Step 1:** Solve one of the equations for one of the variables

**Step 2:** Substitute the expression from Step 1 into the other equation and solve for the other variable.

**Step 3:** Substitute the value from Step 2 into one of the original equations and solve.

Examples:

1. x + y = –7 b. x – 6y = –11 c. 4x + y = –1

 –5x + y = 5 3x + 2y = 7 3x – 5y = –18

Step 1: Step 1: Step 1:

Step 2: Step 2: Step 2:

Step 3: Step 3: Step 3:

Practice:

