MFM2PI – *Unit 3: Linear Systems – Lesson 4*  Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Solving Linear Systems by Substitution – Day 2**

1. **Recall: Solving Linear Systems by Substitution**

In the last lesson, we learned how to solve a linear system by substitution. This is an algebraic solution, which involves manipulating the linear relations to find the solution. We complete this by substituting an equivalent expression in for the first variable, solving for the first variable, and substituting back into the linear relations to find the second variable.

*Quick Review Example: Solve the following linear system by substitution. Be sure to state the solution.*

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1. **Solving a Linear System by Substitution with Equations in Different Forms**

Sometimes the linear relations in your linear system will not be in slope y-intercept form! Do not panic! We can rearrange any of the equations to isolate the most logical variable. Let’s try a couple of examples together!

1. *  
   *
2. *  
   *

1. **Practice Makes Perfect!**

*Solve the following linear systems by substitution. Be sure to state your solution.*

1. **  
   **
2. **  
   **
3. **

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**HW: *Worksheet – “Why Does the President Put Vegetables in his Blender?”***