Algebra OPFI Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**U5 LT3 Part 2 Elimination**

*LT 3: Students will be able to find the solution to a system of equations algebraically.*

|  |  |
| --- | --- |
| *Steps to solve system using Elimination* | **Step 1**: Line up the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**Step 2**: LOOK FOR OPPOSITES* If there are no opposites, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to create opposites

**Step 3:** \_\_\_\_\_\_\_\_\_ the equations.**Step 4**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the one- variable equation.**Step 5**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the value of the variable into one the equations to find the other variable.**Step 6**: Write the solution as an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  |

Success Criteria:

Example 1: Example 2:

4x + 9y = 5 -2x - y = 12

-4x + 7y = 11 9x + y = -26

Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

You Try….

Example 3: -2x + 3y = -9

 5x + 3y = -30

Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

-2x + 4y = -28

 2x + 6y = 18



Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

 **I got the You Try Problem….**

**Correct! Incorrect! I didn’t try/finish it**

Example 4: -2x – 9y = -25

 -4x – 9y = - 23

Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

You Try… 4x + 12y = 20

 4x + 24y = 56

Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_



 **I got the You Try Problem….**

**Correct! Incorrect! I didn’t try/finish it**

Practice

1. -8x – 12y = -100 2. x + 4y = 7

 8x ─ 7y = 5 6x – 4y = -14

Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 3. -6x + 7y = 47 4. 5x + 7y = 31

 6x – 2y = 8 4x – 7y = -13

Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. (5,5) 2. (-1,2) 3. (5,11) 4. (2,3)

5. 3x ─ 12y = 72 6. 2x + 5y = 30

 3x + 7y = -4 -15x – 5y = -160

Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. 3x + 5y = 12 8. 4x – 8y = -112

 3x + 4y = 6 32x + 8y = 256

Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. (8,-4) 6. (10,2) 7. (-6,6) 8. (4,16)