

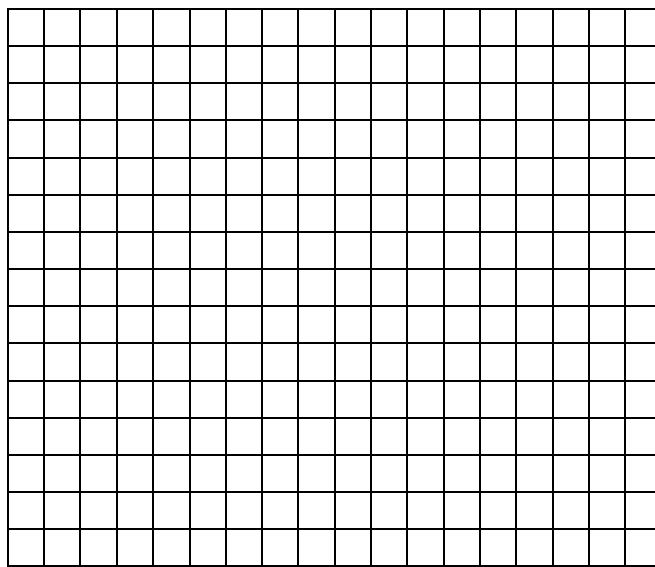
**[MODULE 4: SYSTEMS OF TWO LINEAR EQUATIONS.
ADD, SUBTRACT, MULTIPLY, DIVIDE POLYNOMIALS]**

Name: _____

Points: _____

1. Solve the system of equations $\begin{cases} x + y = 5 \\ 3x - y = 3 \end{cases}$ using the following methods:

a. Method I: By Graphing



Method II: By Substitution

Method III: By Elimination



2. Solve the system of equations $\begin{cases} x + 4y = 1 \\ 2x - 3y = 13 \end{cases}$

a. By The Substitution Method

b. By The Elimination Method



3. Solve the system of equations $\begin{cases} 4x - 3y = 9 \\ 3x + 2y = 11 \end{cases}$ by any method.

Question: Which method would you choose? Why do you choose that method?

Add, Subtract, Multiply Polynomials:

1. Add $(6a - 3b) + (5a - 7b)$

2. Subtract $(9x - 3y) - (4x + 8y)$

3. Subtract $-5p + 4p^2$ from the sum of $5p + 6$ and $2p^2 - 8p$

4. Multiply $(-3xy^6)(-7x^2y^5)$

5. Multiply $-9h^3(h^7 - 5g)$

6. Multiply $(x + 6)(x - 1)$

7. Multiply $(2a - 3b)^2$

8. Multiply $(y - 8)(y + 8)$

9. Multiply $(7a + 3)^2$

**[MODULE 4: SYSTEMS OF TWO LINEAR EQUATIONS.
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10. Divide $\frac{24y^5 - 21y^2}{-3y}$

11. Divide $\frac{-35b^4 + 5b^2}{5b^2}$

12. Divide $2x^2 - 3x + 15$ by $x + 4$

13. Divide $4y^2 - 10y + 7$ by $2y - 1$

14. Divide $x^3 - 3x^2 - 12$ by $x - 2$