**8.2: Solving Systems of Equations Algebraically (day 1)**



Recall from Math 10 that there are 2 methods to solve a system of equations algebraically:

1. SUBSTITION



Isolate one variable in one equation.



Substitute this into the other equation and solve.

Plug your solution into the first equation and solve for the remaining variable.

1. ELIMINATION (Addition/Subtraction)



Multiply/Divide the equations by a number to match one of the variable coefficients.



Add/Subtract the equations together to eliminate that variable and solve.

Plug your solution into the first equation and solve for the remaining variable.

In both cases we must **CHECK** our solution.

In this course we will use the same methods to solve **linear-quadratic** and **quadratic-quadratic** systems.

Ex.1: Solve the following system of equations using both methods:





Ex.2: Solve the following system of equations using both methods:







Ex. 3: Solve the following system of equations using both methods:





