



## Solving systems of two equations by substitution:

- 1. Solve one of the equations for one of the variables in terms of the other.
- 2. Substitute this expression into the 2nd equation, which will yield an equation in one variable.
- 3. Solve the new equation.
- 4. Use the result of step 1 to find the other variable.







## Solving a system of two equations by elimination

- 1. Choose one of the variables to eliminate. Multiply each equation by a suitable factor so that the coefficients of that variable are opposite.
- 2. Add the two new equations termwise.
- 3. Solve the resulting equation for the remaining variable.
- 4. Substitute the value found in step 3 into either of the original equations and solve for the other variable.
- This is also called the method of linear combinations.



