

AIM: Solving systems of equations with the substitution method

1. Solve the system of equations algebraically.

2x + y = 7y = x + 4

<u>Steps</u>

- 1) One variable has to be alone (x = ... or y = ...)
- 2) Substitute (replace) that variable in the other equation using parenthesis so that we have one equation with one variable.
- 3) Solve for the variable
- 4) Plug in your answer to find the other variable.
- 5) Write your answer as a P.O.I.
- 6) Check the P.O.I. in both equations (2 checks)

2. Solve the system of equations algebraically. y = 2x - 14x + 3y = 273. Solve the system of equations algebraically. 4x - 2y = 10y = -2x - 1

4. Solve the system of equations algebraically. y = 3xy = 2x + 75. Solve the system of equations algebraically. y = 8000 - 400xy = 400x

6. Solve the system of equations algebraically. y = -2x + 103x - y = 57. Solve the system of equations algebraically. x = 2 - y5x - 2y = 3 8. Solve the system of equations algebraically. y = x5x - 4y = -29. Solve the system of equations algebraically. x = 4y2x + 3y = 22