Lesson 3 Solving Systems Using Elimination

Steps

- 1. Arrange the equations with like terms in columns.
- 2. Use multiplication/division to make the coefficients of *x* or *y* the same value.
- 3. Add/subtract the equations to eliminate one variable and solve for the remaining variable.
- 4. Substitute the value obtained in Step 3 into either of the original equations and solve for the other variable.
- 5. Check the solution in each of the original equations. (optional)

Example 1

Solve, algebraically. x + 2y = 10-2x + 3y = 15

Example 2 Solve, algebraically. 2y + 4x = 13y + 3x = 3

Example 3 Solve, algebraically. y = 2.5x - 32y = 5x + 4

Example 4

Solve, algebraically. 2y = 6x + 4y = 3x + 2