## Elimination Method

1) Arrange both equations in standard form, placing like terms one above the other

2) Choose a variable to eliminate, and with a proper choice of multiplication, arrange so that the coefficients of that variable are opposites of one another

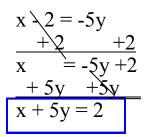
3) Add the equations, leaving one equation with one variable.

4) Solve for the remaining variable

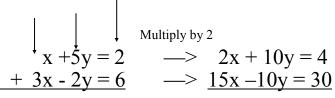
5) Substitute the value in Step 4 into any original equation and solve for the other variable.

6) Write answer as an ordered pair (x, y)

Given equations: x - 2 = -5y-2y = -3x + 6



$$-2y = -3x + 6$$
$$+ 3x + 3x$$
$$3x - 2y = 6$$



Multiply by 5

$$2x + 10y = 4$$
  
+ 15x - 10y = 30  
17x = 34  
(2) - 2 = -5y  
0 = -5y  
0 = y

x = 2 and y = 0 so... (2,0)