Wacky Archie Method

Double eliminated

Example: Solve for the variables.

Equation #1) 8x +8y =-16

Equation #2) 2x -3y =-92

To solve for Y:

Step #1 Multiply the Coefficient of x of equation #1 to Equation #2.

Multiply the coefficient of x of equation #2 to Equation #1.

2(8x+ 8y = -16)

8(2x-3y =-9)

Simplify:

16x +16y = -32

16x – 24y = -72

Eliminate (Add or subtract equations)

16x +16y = -32

16x – 24y = -72

40y = 40

Divide by the Coefficient of x.

4y = 40

40 40

Simplify

y = 1

To solve for X:

Step #1: Multiply the coefficient of y

of equation#1 to Equation #2 .

Multiply the Coefficient of y

of equation #2 to Equation #1.

3(8x+ 8y = -16)

8(2x-3y =-9)

Simplify:

24x +24y = -48

16x – 24y = -72

Eliminate (Add or subtract equations)

24x +24y = -48

16x – 24y = -72

40x = -120

Divide by the Coefficient of x.

40x = -120

40 40

Simplify

x =-3