Method 3: Solve by Eliminaton:

Homework - Assignment #1 - Elimination
Complete first side
Complete back side for BONUS

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Steps:

1. Place both equations in Standard form, $Ax + By = C$
2. Use multiplication to create 2 terms to have the opposite value (ex. 3x and -3x)
3. Add or subtract each set of like terms resulting in the elimination of the one variable.
4. Solve
5. Use the value from Step 4 and substitute it into an equation to solve for the other variable
6. State the POI (Point of Intersection) by stating "The POI is (,)"

Sub the value you solved into one of the equations

you need to have opposite values

Examples

$4x + 3y = -15$
$x - 3y = 0$

$5x = -15$, $x = -3$

$(-3) - 3y = 0$, $-3y = 3$, $y = -1$

POI = $(-3, -1)$

$-5x + 3y = -1$
$-7x + 3y = -11$

$2x = 10$, $x = 5$

$-5x + 3y = -1$
$-5(5) + 3y = -1$
$-25 + 3y = -1$
$3y = 24$, $y = 8$

POI = $(5, 8)$

$3x+4y=-6$
$5x+6y=-8$

$4x=-2y+24$
$-x-3y=-21$