

## Substitution Method

ex. 1  $x = -3y + 1$  Solve this system.  
 $4x - 3y = -11$

①  $4(-3y + 1) - 3y = -11$   
 $-12y + 4 - 3y = -11$   
 $-15y + 4 = -11$   
 $\quad -4 \quad -4$   

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 $-15y = -15$   
 $\quad -15 \quad -15$

$y = 1$

②  $x = -3y + 1$   
 $x = -3(1) + 1$   
 $x = -3 + 1$   
 $x = -2$

③  $4(-2) - 3(1) = -11$   
 $-8 - 3 = -11$   
 $-11 = -11$

④ POI  $(-2, 1)$

① Substitute and solve for one variable

② Substitute and solve for the other variable. (use original equation)

③ Check (use the other equation)

④ Write answer as an ordered pair.