Write out the steps required to make the equation on the left the same as the equation on the right		
EXAMPLE: STEPS 1. $2x + 14 = 4y - 10$ 2. $2x + 14 + 10 = 4y - 10 + 10$ Add 10 to both sides 3. $2x + 24 = 4y$ Add 10 to both sides 4. $\frac{2x+24}{4} = \frac{4y}{4}$ Divide both sides by 4 5. $\frac{1}{2}x + 6 = y$ Done! Matches equation on right \rightarrow	$\frac{1}{2}x + 6 = y$	
-3y + 15 = 4y - 5	-y + 12 = 6y - 8	
2x + 4y = 12	$y = -\frac{1}{2}x + 3$	
$y = -\frac{3}{2}x + 6$	$\frac{3}{2}x + y = 6$	
$(x + 9)^2 = 10$	$x = -9 + \sqrt{10}$	

2x + 14 = 4y - 10	
	2x - 4y = -24
-4y + 12 = 3y - 10	-y + 6 = 6y - 16
	y + 0 = 0y 10
5x + 2y = 12	$y = -\frac{5}{2}x + 6$
	y = 2 x + 0
$y = -\frac{4}{5}x + 6$	
	4x + 5y = 30
$(x - 16)^2 = 14$	
	$x = 16 + \sqrt{14}$

Substitute the given values into the given equation		
$m = -\frac{2}{3} and b = -2$	$\frac{EXAMPLE:}{m = -3, y = 4, and x = 3}$	
y = mx + b	y = mx + b	
	4 = (-3)(3) + b	
	Replace each variable in the equation with the number it is equal to. If no number is given, keep the variable the same.	
m = -3 and b = 6	$y = -\frac{5}{3} and x = 2$	
y = mx + b	5x + 3y = C	
$y = \frac{2}{3}, m = 5 and b = 4$	a = 3, b = 6, and c = -1	
y = mx + b	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$	
m = -3 and b = 6	$y_1 = 4, y_2 = 2, x_1 = -4, and x_2 = -3$	
y = mx + b	$m = \frac{(y_1 - y_2)}{(x_1 - x_2)}$	
	(~1 ~2)	

$$m = -\frac{1}{6} and b = -\frac{3}{4}$$

$$y = mx + b$$

$$m = -7, y = -1, and x = -3$$

$$y = mx + b$$

$$y = mx + b$$

$$y = mx + b$$

$$y = -\frac{5}{3} and x = -\frac{4}{5}$$

$$y = mx + b$$

$$y = -\frac{5}{3} and x = -\frac{4}{5}$$

$$5x + 3y = C$$

$$y = \frac{3}{4}, m = -\frac{2}{5} and b = 2$$

$$y = mx + b$$

$$a = 5, b = -5, and c = -1$$

$$x = \frac{-b \pm \sqrt{b^{2} - 4ac}}{2a}$$

$$m = 6 and b = -7$$

$$y = mx + b$$

$$y_{1} = 2, y_{2} = 1, x_{1} = -5, and x_{2} = 8$$

$$m = \frac{(y_{1} - y_{2})}{(x_{1} - x_{2})}$$

Solve for the indicated variable		
Solve for x	<u>EXAMPLE:</u> Solve for y	
$(x - 7)^2 = 16$	6x + 3y = 24	
	6x - 6x + 3y = -6x + 24 Subtract 6x	
	3y = -6x + 24	
	$\frac{3y}{3} = \frac{-6x+24}{3}$ Divide by 3	
	y = -2x + 8 DONE	
Solve for x	Solve for x	
0 = -3x + 30	$\frac{2}{5}x + 2(6) = 14$	
Solve for y	Solve for y	
4(5) + 3y = 31	2x - 10y = 2	

Solve for x	Solve for y
$(2x - 4)^2 = 16$	-2x + 4y = 16
Solve for x	Solve for x
0 = 5x + 10	$\frac{2}{3}x + 6(5) = 14$
Solve for y	Solve for y
4 + (-5) + 2y = 31	3x - 9y = 6
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