

U11-6 Solving an Equation for y

<p>How do you graph an equation that is NOT in slope-intercept form?</p> <p align="center">$6y - 12x = 24$</p>	<p>In order to find the _____ and the _____</p> <p>it is simplest to put this linear equation in to _____.</p>	<p>If I rearrange this line to be in the form "$y = mx + b$", it will be easy to read off the slope m, and y-intercept, b.</p>
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Your goal is to get the y term on the left side and everything else (x term and constant) on the right side.

<p>1) Move the x-term to the opposite side of the y term.</p>	<p align="center">$6y - 12x = 24$</p>
<p>2) Get the y term alone.</p>	
<p>3) Simplify in necessary.</p>	

<p>1) Move the constant (20) to the opposite side of the y term.</p>	<p align="center">$20 - 2y = 4x$</p>
<p>2) Don't lose the -2! The get the y term alone.</p>	
<p>3) Simplify in necessary.</p>	

<p>1) Move the constant to the opposite side of the y term.</p>	<p align="center">$y + 2x - 3 = 5x$</p>
<p>2) Move the x term to the opposite side of the y term.</p>	
<p>3) Simplify - Combine liker terms.</p>	

<p>1) Move the x term to the opposite side of the y term.</p>	<p align="center">$-15y + 2x = 30$</p>
<p>2) Get the y term alone: leave any decimals as fractions!!</p>	
<p>3) Simplify in necessary.</p>	

You Try!

1) $2y - 5x = 16$

m = _____ b = _____

2) $y - x = 6$

m = _____ b = _____

3) $3 + y = 5x$

m = _____ b = _____

4) $y - 2x + 4 = 10$

m = _____ b = _____

5) $20x + 4y = 8$

m = _____ b = _____

6) $9y + 3x = 1$

m = _____ b = _____

7) $5y - 2x = 4$

m = _____ b = _____

8) $3y - 2x = 0$

m = _____ b = _____