



y represents the <u>output</u> & x represents the <u>input</u>







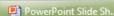
















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y represents the output & x represents the input

m represents the slope

# IN FRONT OF X

b represents the <u>y-intercept</u>





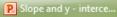


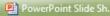












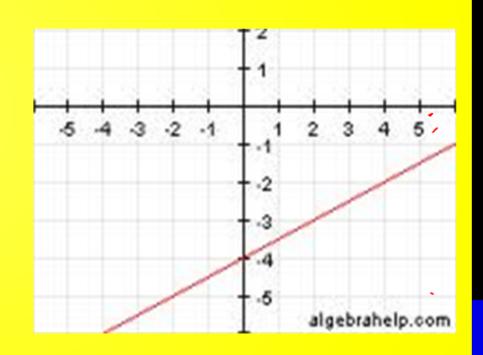




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# What's slope again??

$$m = \frac{rise}{run}$$







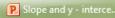


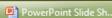








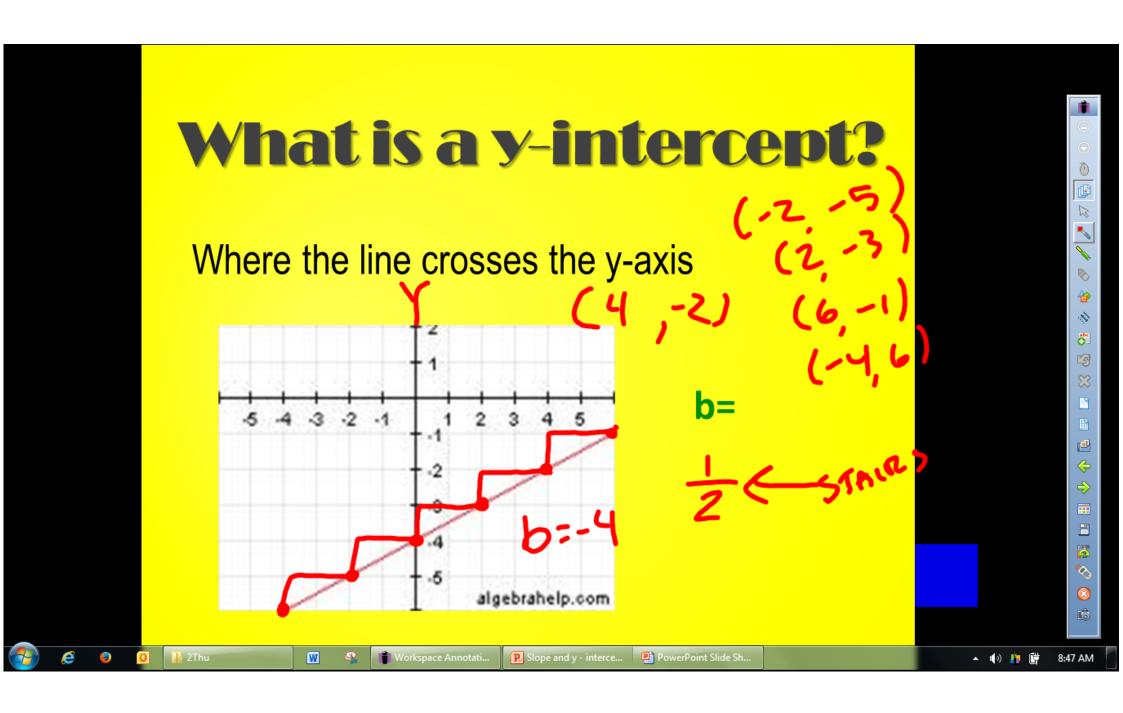








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## Graphing y = mx + b

- 1) What is the y intercept? (b) Plot the y-intercept
- 2) What is the slope? (m)
- 3) From the y-intercept; count up+ or down- (rise) then GO RIGHT(run) and plot your point. Repeat
- 4) From the y intercept, do the slope backwards Go OPPOSITE rise and LEFT. Repeat

5)Connect all 5 points





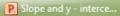


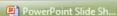






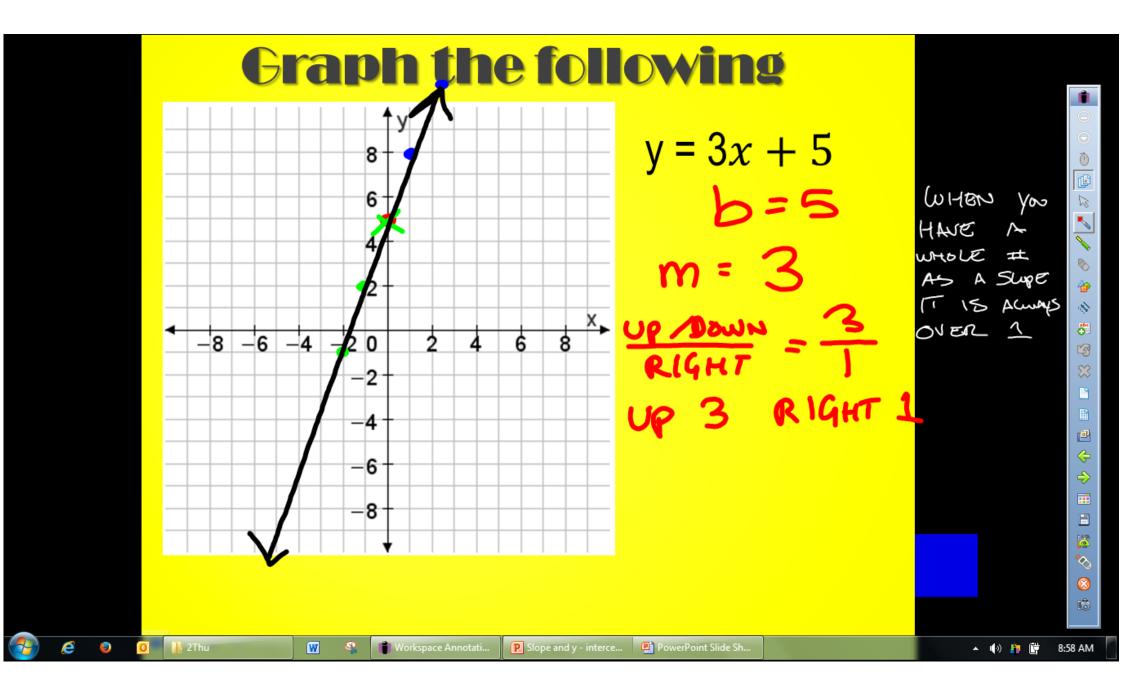




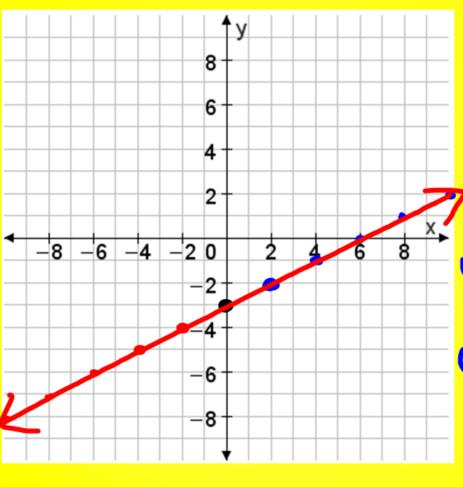








#### Graph the following



$$y = \frac{1}{2}x - 3$$
 $b = -3$ 
 $m = \frac{1}{2}$ 













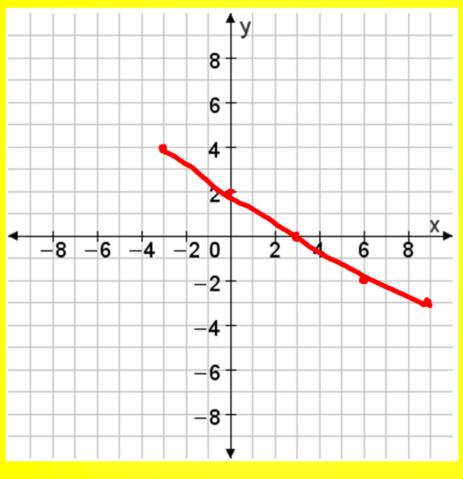






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## Graph the following



$$y = -\frac{2}{3}x + 2$$





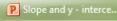










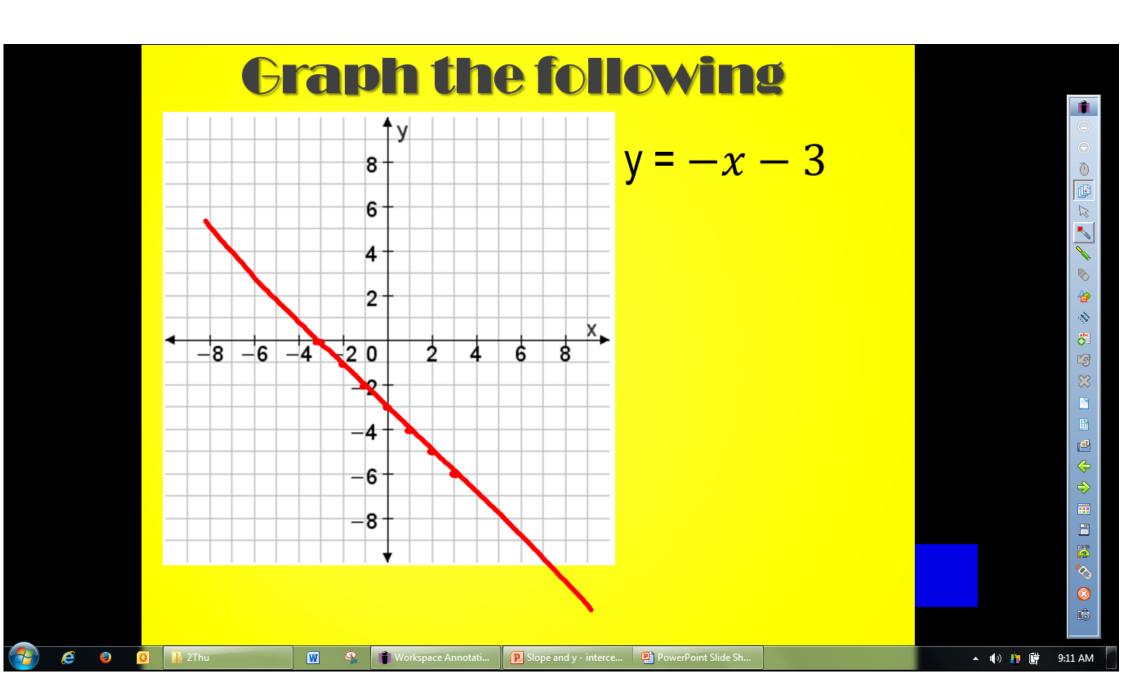




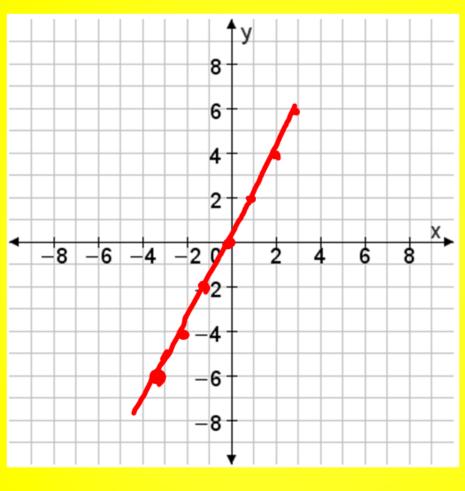




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### Graph the following



$$y = 2x + 0$$





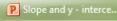




















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