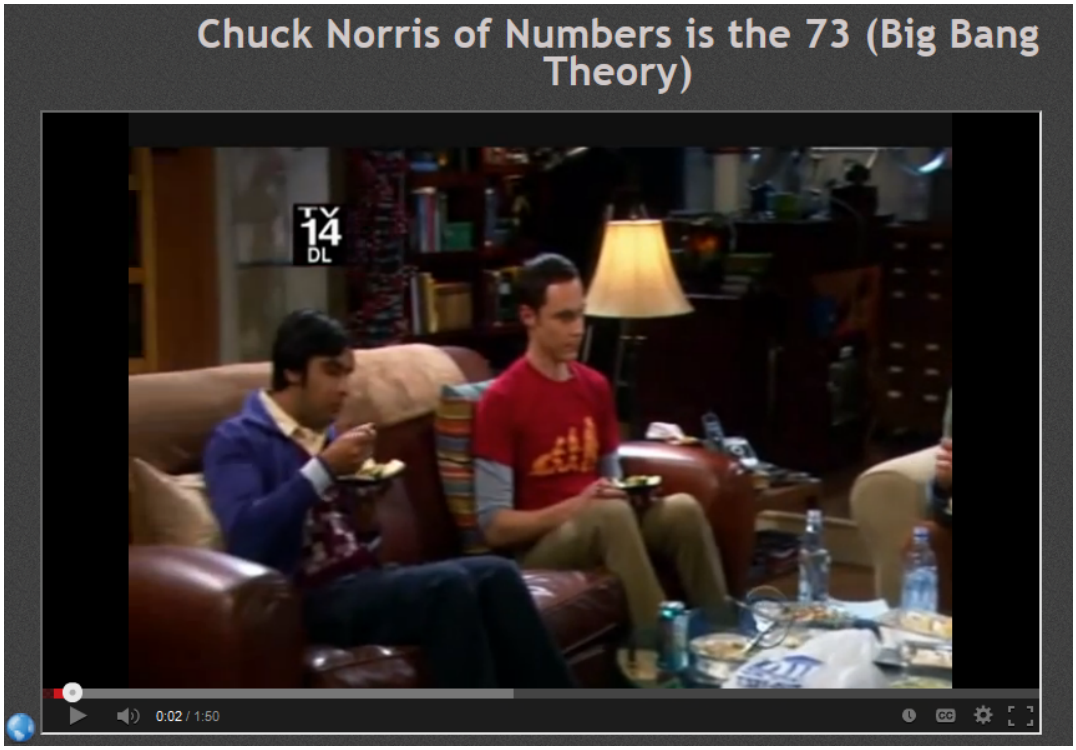
Favorite Numbers... What's Sheldon's???



WHY WE CAN'T DIVIDE BY ZERO...

$$0 \times \frac{11}{0} = \square \times 0$$

$$11 = \square \times 0$$

? undefined

Graphing Linear Functions

NOTES - Graphing Linear Relationships.docx

Method #1 - Table of Values (must have at least 3 points)

* Rearrange

ex: $3x - 6y + 18 = 0$

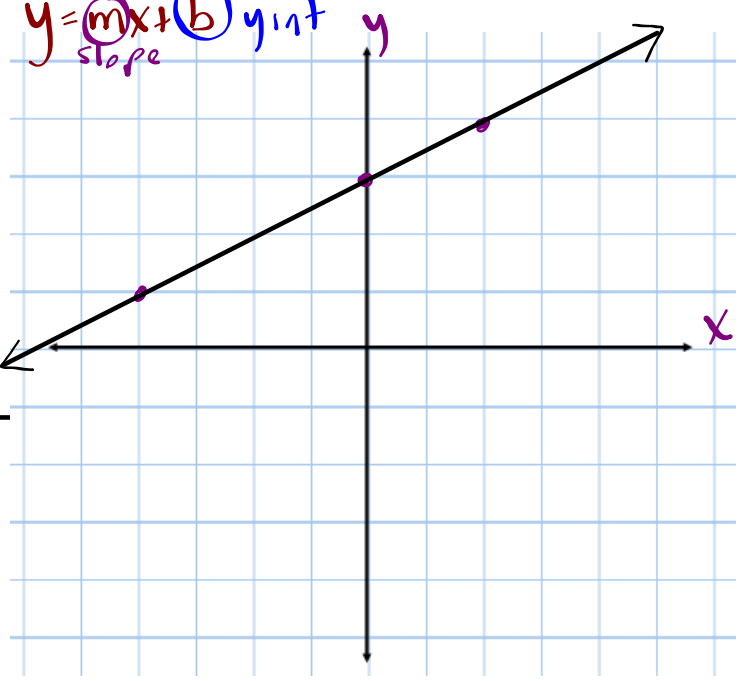
$\frac{-6y}{-6} = \frac{-3x}{-6} - \frac{18}{-6}$

$y = \frac{1}{2}x + 3$

y-int

x	y
0	3
2	4
-4	1

$\frac{1}{2}(2) + 3$



Method #2 - Using the slope/*y* intercept form of the equation

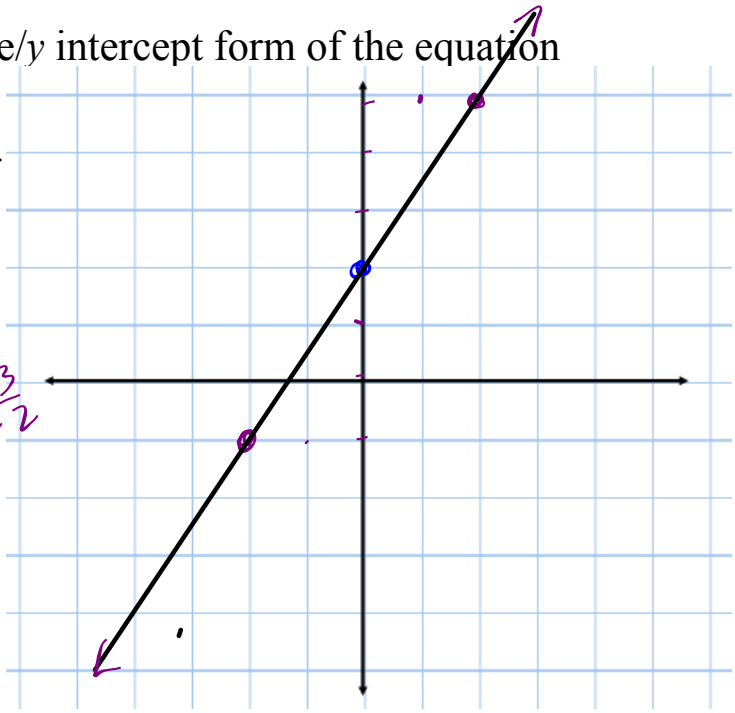
- put equation in the form.

$y = mx + b$

ex $m = \frac{6}{1}$

- plot the *y* intercept
- use slope = $\frac{\text{Rise}}{\text{Run}}$ $\frac{3}{2}$ or $\frac{-3}{-2}$

  to plot other points.



ex: $3x - 2y = -4$

$\frac{-2y}{-2} = \frac{-3x}{-2} - \frac{4}{-2}$

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

m y-int

Method #3 - Using x / y intercepts

ex: $x - 5y - 10 = 0$

x-int (let $y = 0$)

$x - 5(0) - 10 = 0$

$x - 10 = 0$

$x^{int} = 10$

$(10, 0)$

y-int (let $x = 0$)

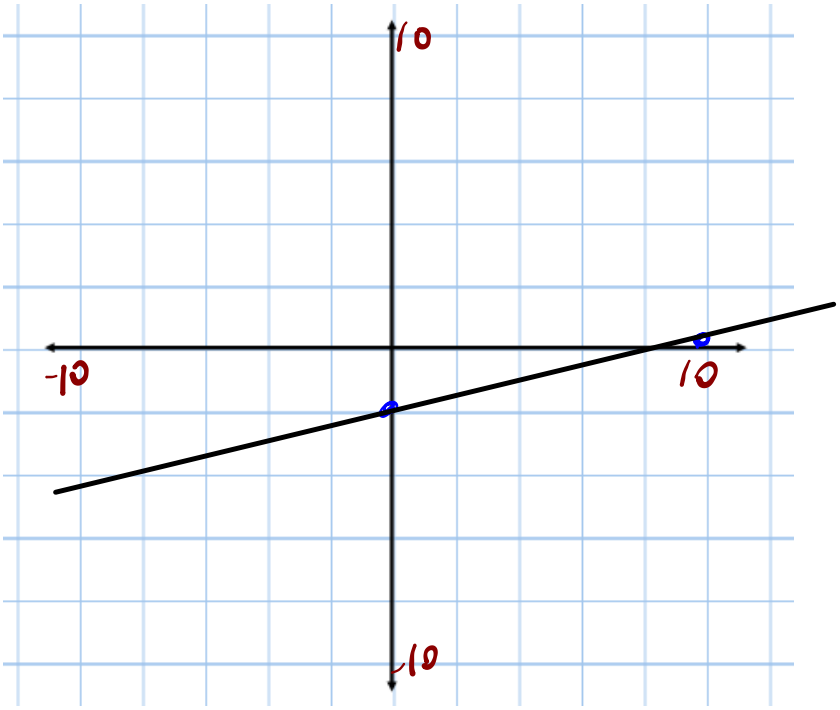
$0 - 5y - 10 = 0$

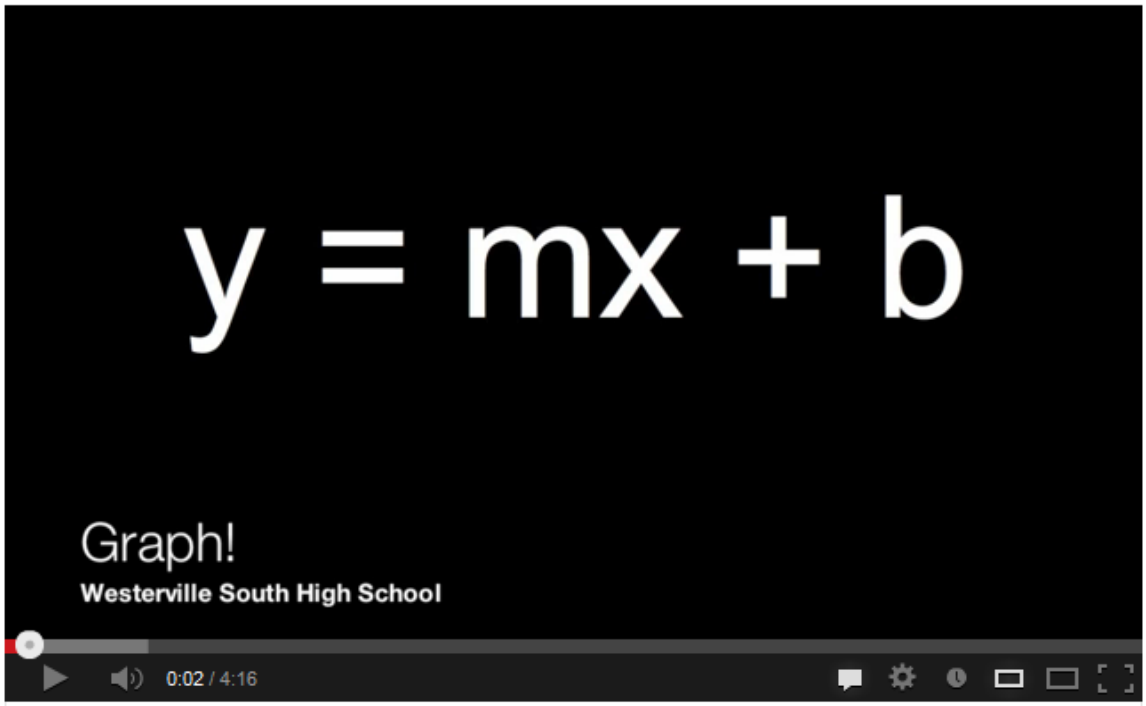
$-5y = 10$

$\frac{-5y}{-5} = \frac{10}{-5}$

$y^{int} = -2$

$(0, -2)$

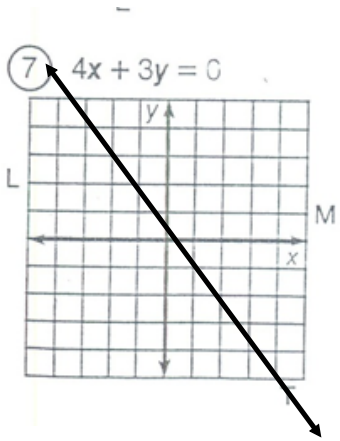




Graph! (WSHS Math Rap Song)

HOMEWORK...

Puzzle Worksheet - Graphing Lines.docx



Attachments

NOTES - Graphing Linear Relationships.docx

Puzzle Worksheet - Graphing Lines.docx