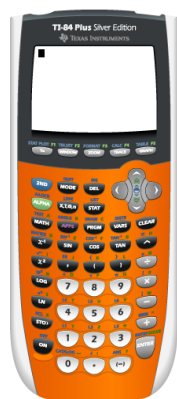
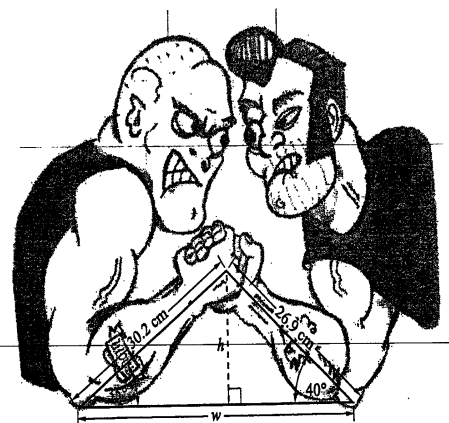


Welcome to...



FOUNDATIONS of MATHEMATICS 11



Housekeeping to get done today...

- Attendance
- Introductions
- Classroom Rules & Procedures...
- Discuss website...
- Review Course Outline



Welcome Back!!!

- Bell schedule (3 lates = 1 day unexcused)
- Fire drill
- "Code black"
- Classroom rules and procedures...
 - #1 rule: COMMON SENSE!!!
 - Be prepared & Be respectful: property, peers & learning
 - School rules:
 - * smartphones turned OFF & put away/flipped on desk.
 - * MP3 players (teacher discretion).
 - * no hats or hoods.
- Course change sheet



Thanks for remembering
this is a



Peanut/Nut
Free School

BELL SCHEDULE

8:25	Warning Bell
8:35 - 9:40	Period 1 / Homeroom
9:45 - 10:50	Period 2
10:55 - 12:00	Period 3
12:00 - 12:55	Lunch
1:00 - 2:05	Period 4
2:10 - 3:15	Period 5

HOMEROOM...

ATTENDANCE:

4 Days - Period 1 Teacher calls home

6 Days - Student meets with Guidance

8 Days - Period 1 Teacher calls home

10 Days - Meeting with Parents/Guardians

15 Days - Student meets with Guidance

20 Days - Recommend Removal

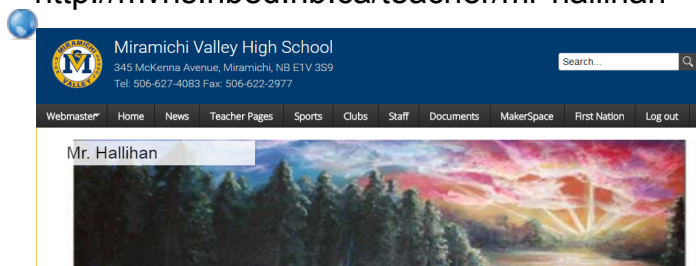
Reminders...

MARKS:

- * Academic Incentives
 - 1) Missed 5 or fewer in ALL classes
 - 2) All work is completed in the course
 - 3) Passing the course

- * Options are 15% or 50% exam!!!

<http://mvhs.nbed.nb.ca/teacher/mr-hallihan>



- Every lesson...every day!
 - * No excuses when you miss a day...
get lesson from website!
- Daily homework assignment
 - * To Learn Math Is To DO MATH!

Foundations of Math 11 Course Outline Winter 2018.pdf



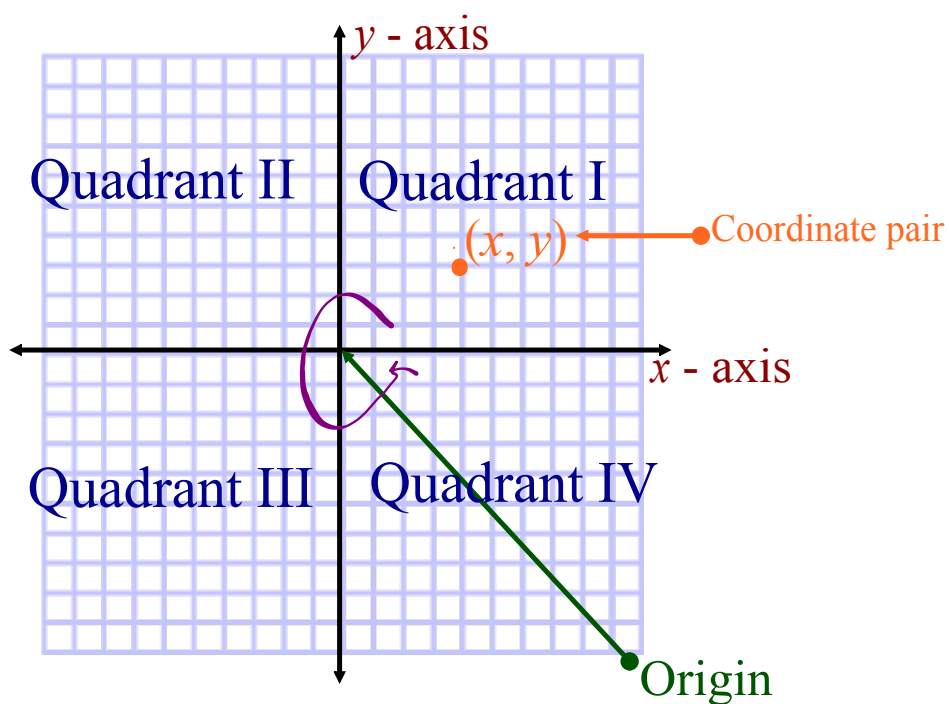
REVIEW: NRF 10...Linear Relations

- slope
- $y = mx + b$
- x & y intercepts
- graphing a line

Review of 2-Dimension Coordinate Geometry

'AKA... Numbers, Relations and Functions 10'

Cartesian Plane



Associates each point with a pair of numbers (**ordered pair**).

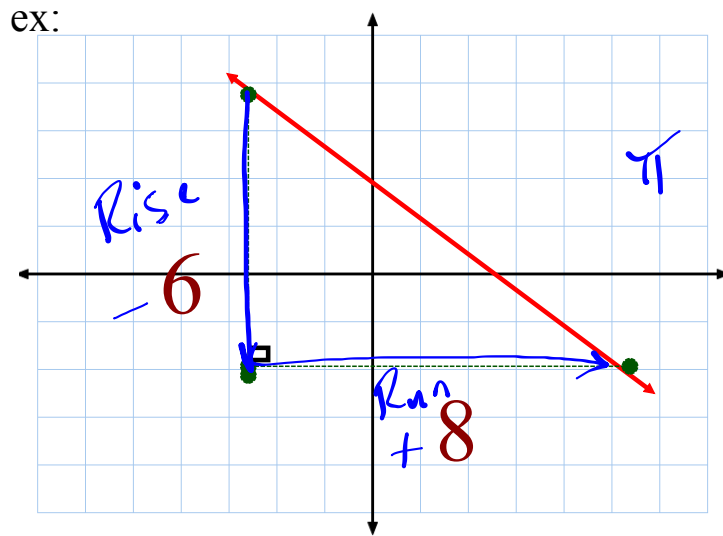
Calculating Slope

#1. Graph

$$\text{Slope} = \frac{\text{Rise}}{\text{Run}}$$

$$= \frac{-6}{8}$$

$$= -\frac{3}{4}$$



#2. Two Points

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

ex: $(-3, 5)$ & $(1, -7)$

$$m = \frac{-7 - 5}{1 - (-3)}$$

$$= \frac{-12}{4}$$

$$m = -3$$

#3. Equation

ex: Determine the slope of...

$$y = mx + b$$

slope

Rearrange

SAMDEB

y-int

$$3x - 2y - 6 = 0$$

$$-2y = -3x + 6$$

$$y = \left(\frac{3}{2}\right)x - 3$$

$m = \frac{3}{2}$

Example...

Find the slope of the following line... $6x + 4y - 12 = 0$

Intercepts

x intercept

Where does it cross the x - axis? (Let $y = 0$)

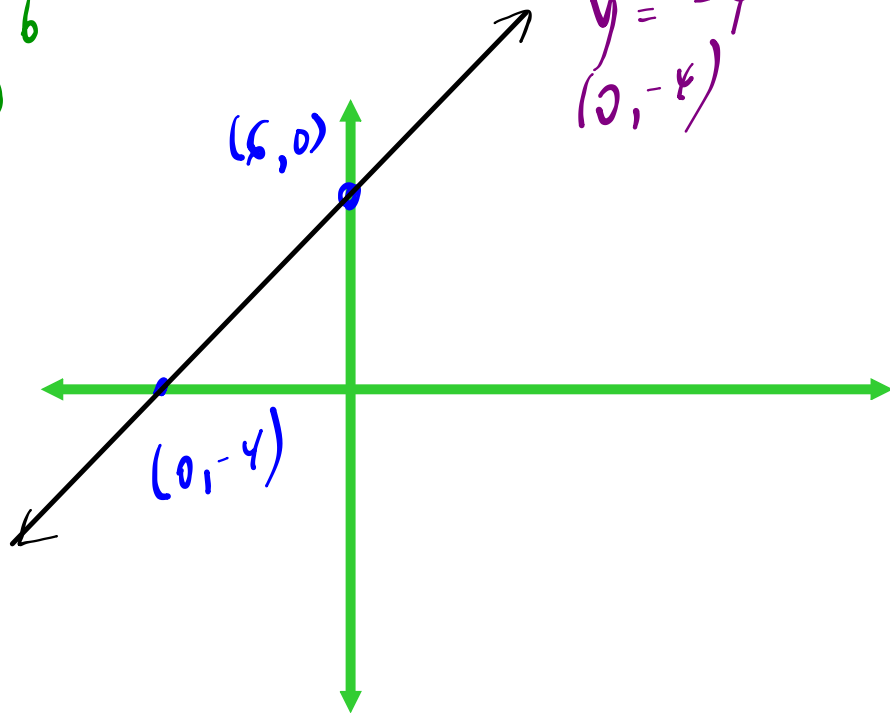
y intercept

Where does it cross the y - axis? (Let $x = 0$)

Ex. $2x - 3y = 12$

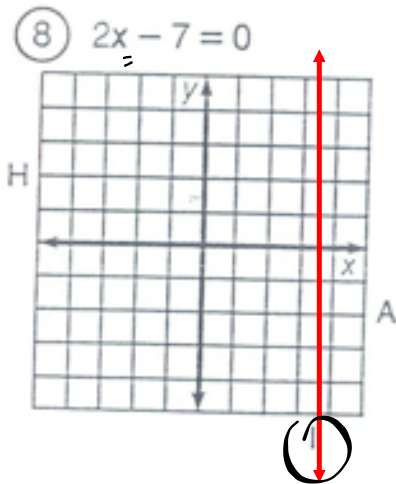
x int
 $2x - 3(0) = 12$
 $\frac{2x}{2} = \frac{12}{2}$
 $x^{int} = 6$
 $(6, 0)$

y int
 $2(0) - 3y = 12$
 $-3y = \frac{12}{-3}$
 $y^{int} = -4$
 $(0, -4)$
 $b = -4$



HOMEWORK... Questions

Puzzle Worksheet - Graphing Lines.docx



$$\frac{2x}{2} = \frac{7}{2}$$

$$x = 3.5$$

* $x = \#$
 ↑
 vertical line

SOLUTIONS/QUESTIONS FROM THE HOMEWORK???

Why Does a Poor Man Drink Coffee?

Use the slope and y-intercept to graph each equation below. The graph, if extended, will cross a letter. Print this letter in each box that contains the number of that exercise.

① $-3x + 2y = 2$ ② $x - 4y = 8$ ③ $2x + y = -3$
 ④ $2x + 3y = 6$ ⑤ $3x - y = 1$ ⑥ $-3x - 5y = 10$
 ⑦ $4x + 3y = 0$ ⑧ $2x - 2y + 5 = 0$ ⑨ $y - 3 = 0$

6	8	6	4	3	5	2	9	1	2	9	8	1	7	8	4
H	E	H	A	S	N	O	P	R	O	P	E	R	T	E	A

COLLECTIVE S- To graph a line given its equation (includes vertical lines) ©1995 Creative Publications 157

HE HAS NO PROPER
TEA
He has no proper tea
(property).
Page 158
SHE HAD A BUM
STEER

Graphing Linear Functions

NOTES - Graphing Linear Relationships.docx

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

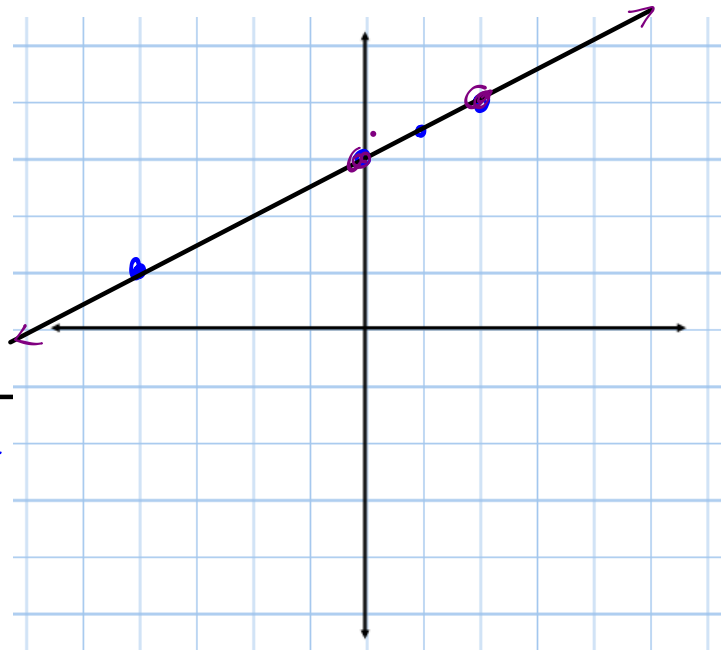
ex: $3x - 6y + 18 = 0$

$$\begin{aligned} -6y &= -3x - 18 \\ \frac{-6y}{-6} &= \frac{-3x}{-6} - \frac{18}{-6} \\ y &= \frac{1}{2}x + 3 \end{aligned}$$

Sub

x	y
0	3
1	3.5
2	4
-4	1

$\frac{1}{2}(2) + 3$
 $\frac{1}{2}(-4) + 3$

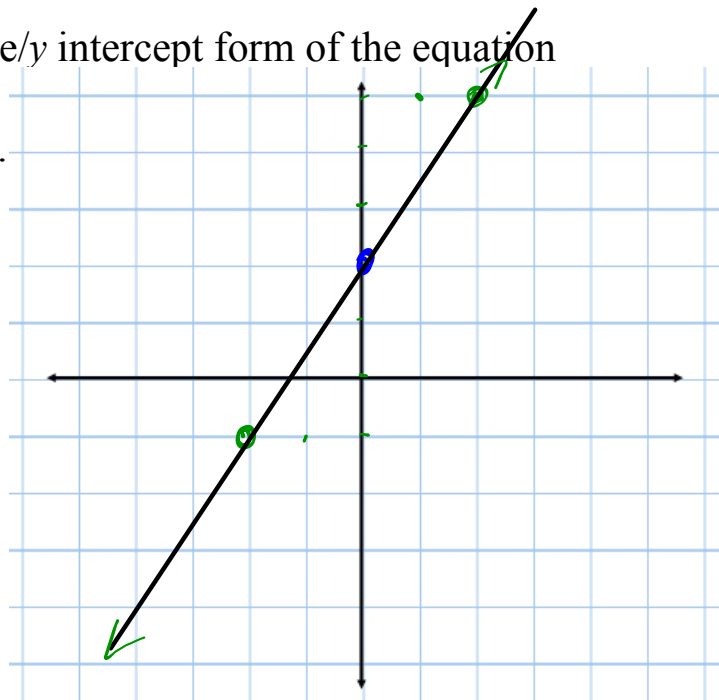


Method #2 - Using the slope/y intercept form of the equation

- put equation in the form.

$$y = mx + b$$

- plot the y intercept
- use slope = $\frac{\text{Rise}}{\text{Run}}$ to plot other points.



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

$$\begin{aligned} -2y &= -3x - 4 \\ \frac{-2y}{-2} &= \frac{-3x}{-2} - \frac{4}{-2} \\ y &= \frac{3}{2}x + 2 \end{aligned}$$

m yint

Method #3 - Using x / y intercepts

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

x-int

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

$$x - 10 = 0$$

$$x = 10$$

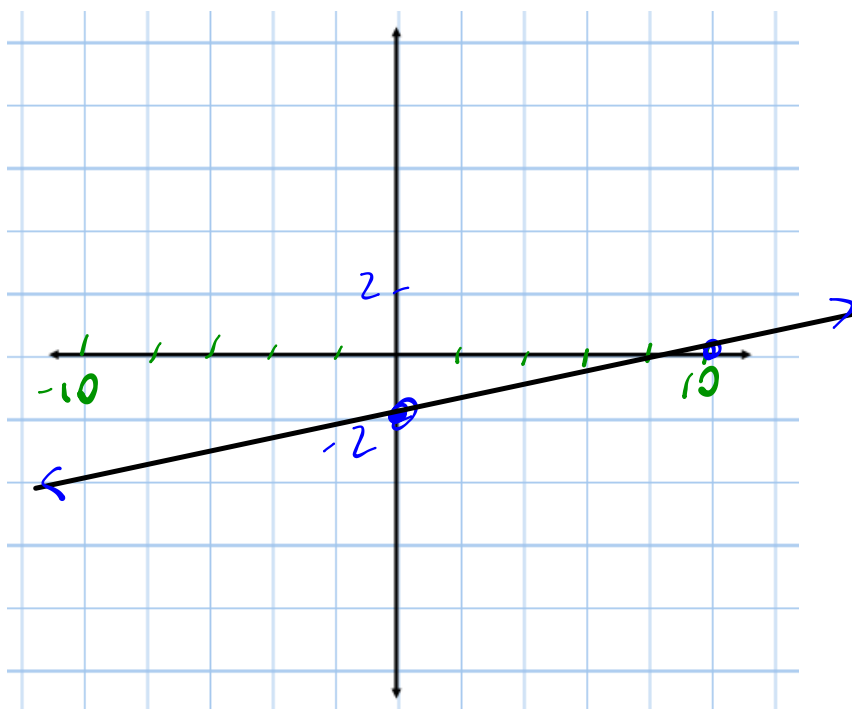
$$(10, 0)$$

y-int

$$0 - 5y - 10 = 0$$

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

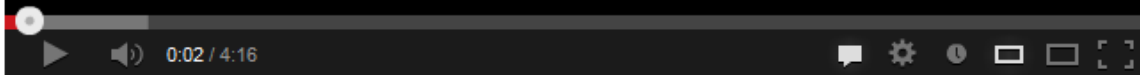
$$y = -2$$
$$(0, -2)$$



$$y = mx + b$$


Graph!

Westerville South High School



Graph! (WSHS Math Rap Song)

HOMEWORK...

 Graphing Assignment.pdf

Attachments

Puzzle Worksheet - Graphing Lines.docx

NOTES - Graphing Linear Relationships.docx

Foundations of Math 11 Course Outline Winter 2018.pdf

Graphing Assignment.pdf