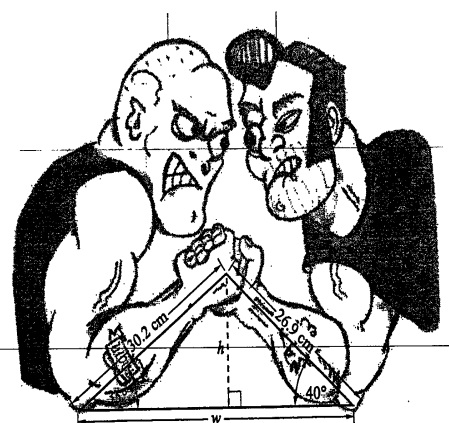


Welcome to...



FOUNDATIONS of MATHEMATICS 11



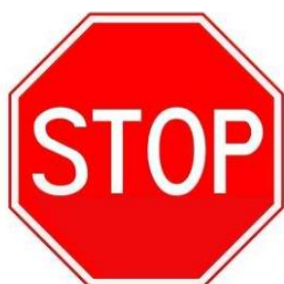
Housekeeping to get done today...

- 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 and put away.
 - * MP3 players (teacher discretion).
 - * no hats or hoods.
 - * hall pass
- 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

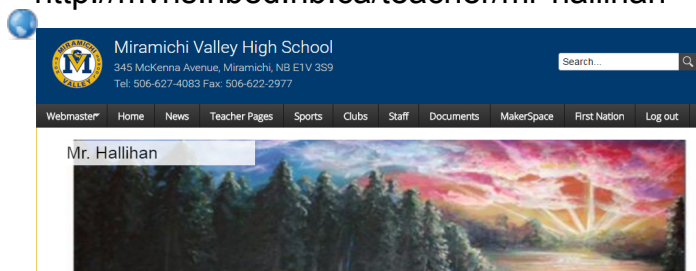
Reminders...

MARKS:

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

- * All exams will be valued at 30%

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



[Foundations of Math 11 Course Outline Fall 2017.pdf](#)

- 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!

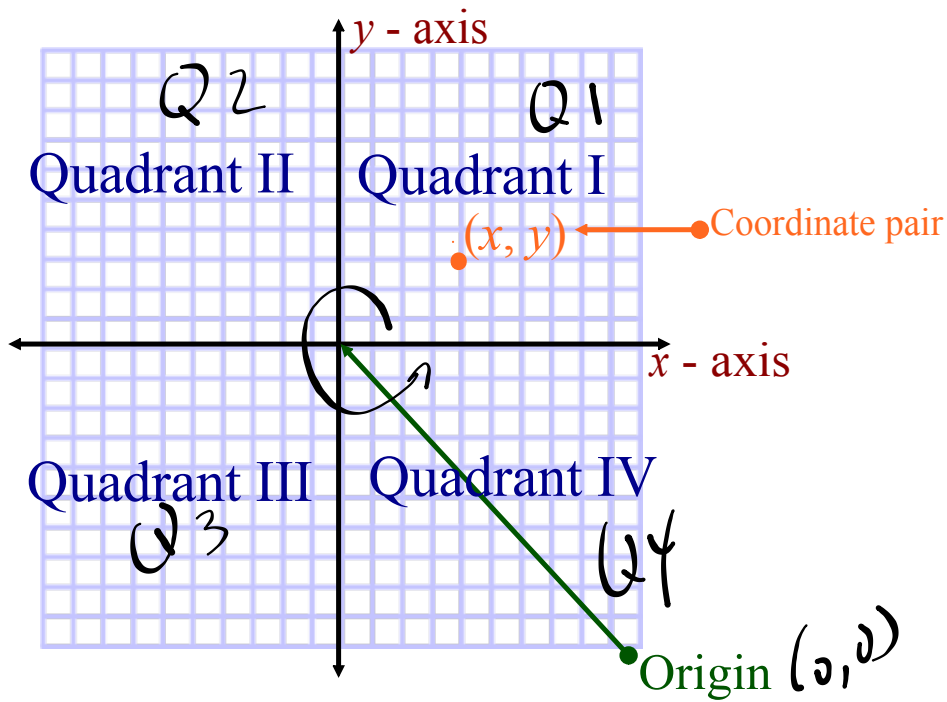
REVIEW: NRF 10...Linear Relations

- 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**).

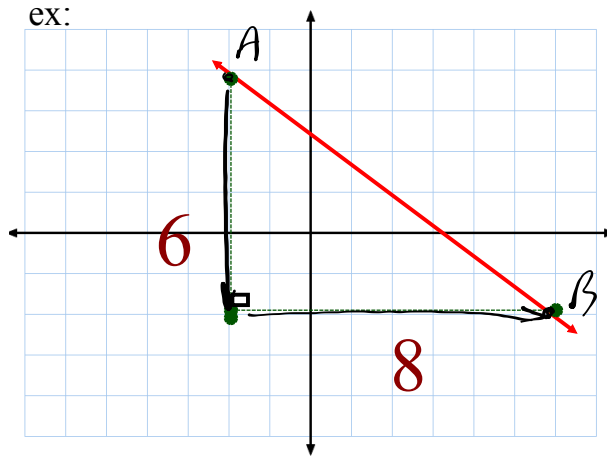
Calculating Slope

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

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

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

$$= -3$$

#3. Equation

$$y = mx + b$$

↑
slope

ex: Determine the slope of...

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

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

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

↑
 $m = \frac{3}{2}$

Example...

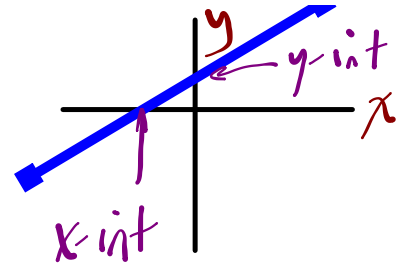
Find the slope of the following line... $6x + 4y - 12 = 0$

$$4y = -6x + 12$$

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

↑
 $y = mx + b$

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 (let $y = 0$)

$$2x - 3(0) = 12$$

$$\frac{2x}{2} = \frac{12}{2}$$

$$x = 6$$

$$(6, 0)$$

y int (let $x = 0$)

$$2(0) - 3y = 12$$

$$-3y = 12$$

$$\frac{-3y}{-3} = \frac{12}{-3}$$

$$y = -4$$

$$(0, -4)$$

What about vertical versus horizontal lines???

Graphs of Special Lines

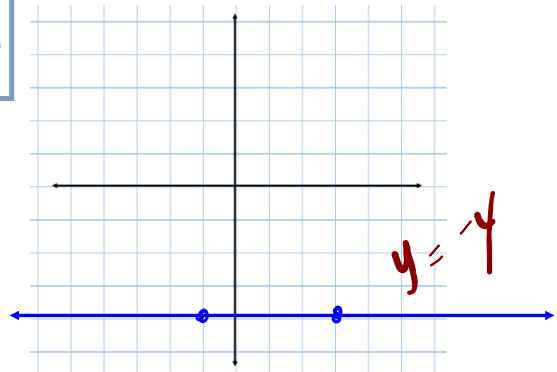
- horizontal lines - slope value of zero

ex: $(3, -4)$ & $(-1, -4)$

$$m = \frac{-4 - (-4)}{-1 - 3}$$

$$= \frac{0}{-4}$$

$$= 0$$

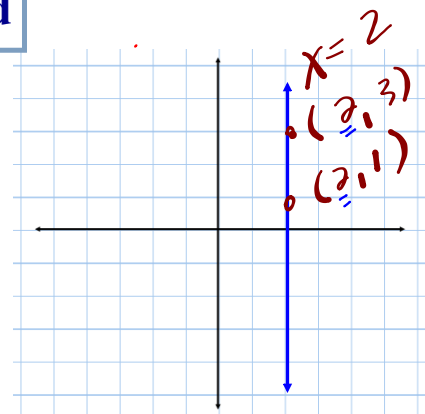


- vertical lines - slope value is **undefined**

ex: $x = 2$

$$m = \frac{1 - 3}{2 - 2}$$

$$= \frac{-2}{0}$$



Attachments

Foundations of Math 11 Course Outline Fall 2017.pdf