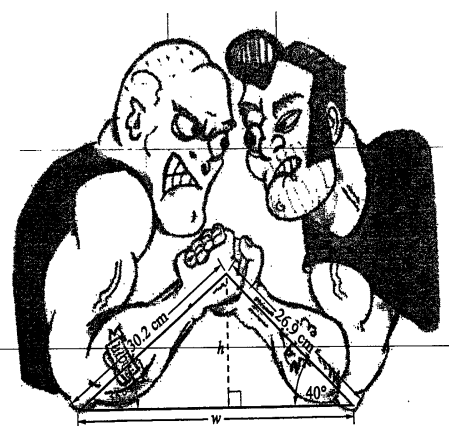


# Welcome to...

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## FOUNDATIONS of MATHEMATICS 11



Housekeeping to get done today...

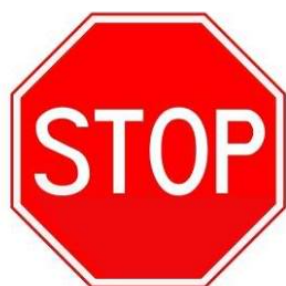
- Attendance      • Introductions      • Classroom Rules & Procedures...
- Discuss website...      • Review Course Outline



# Welcome Back!!!

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- 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**

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

# **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

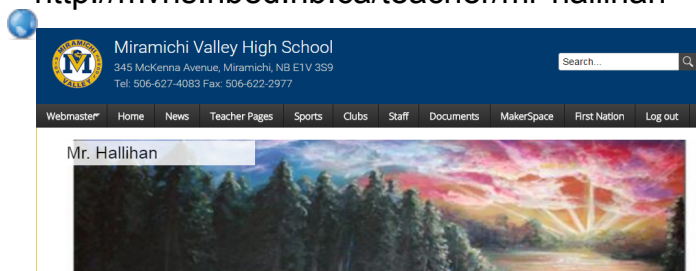
20 Days - Recommend Removal

# 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**

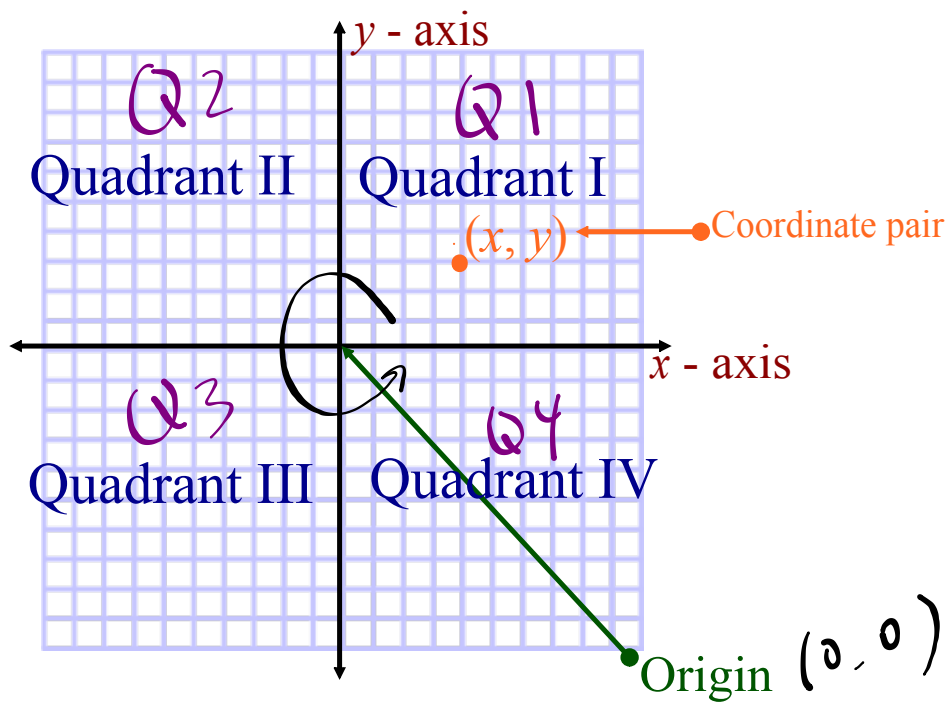
- slope
- $y = mx + b$
- x & y intercepts
- graphing a line



# Review of 2-Dimension Coordinate Geometry

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

## Cartesian Plane



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

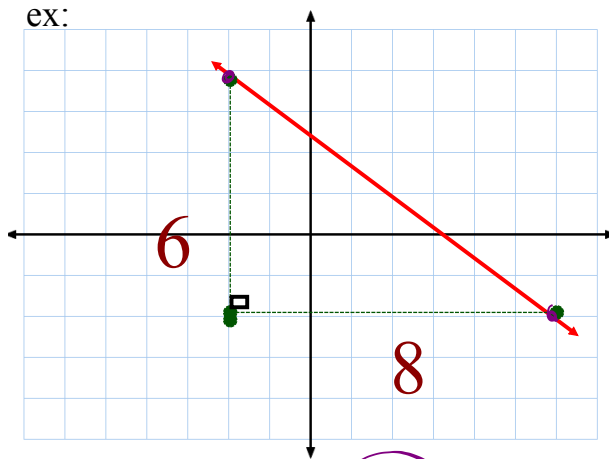
## Calculating Slope

### #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)

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

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

$$m = -3$$

### #3. Equation

$$y = mx + b$$

slope

y-int

ex: Determine the slope of...

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

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

$$y = \left[ \frac{3}{2} \right] x - 3$$

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

Example...

Find the slope of the following line...

$$6x + 4y - 12 = 0$$

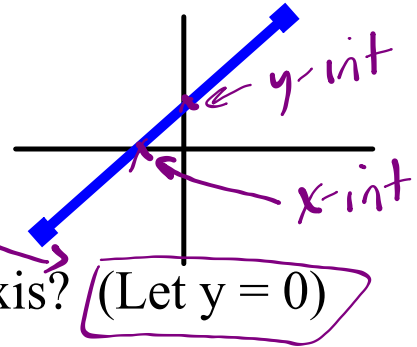
$$\frac{4}{4}y = -\frac{6}{4}x + \frac{12}{4}$$

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

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

# 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

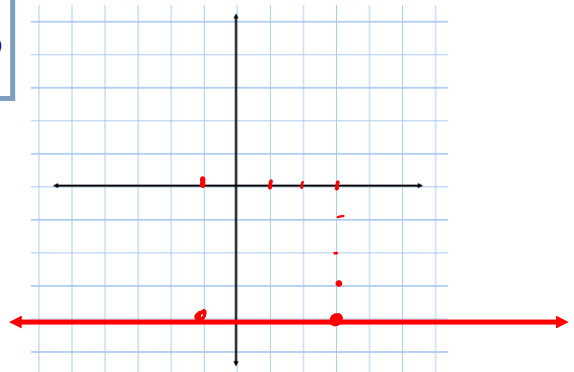
- horizontal lines - slope value of zero

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

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

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

$$m = 0$$



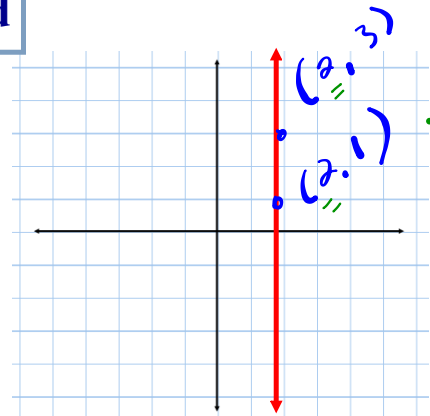
- vertical lines - slope value is **undefined**

ex:  $x = 2$

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

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

undefined



## Attachments

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Foundations of Math 11 Course Outline Fall 2017.pdf