Welcome to...

FOUNDATIONS of MATHEMATICS 11

Housekeeping to get done today...

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

Rules & Procedures...

- Bell schedule (3 lates = 1 day unexcused)
- Fire drill
- "Code black"
- Classroom rules and procedures...
  - #1 rule: COMMON SENSE!!!
  - Be prepared: pencil, **calculator**, text & paper.
  - Be respectful: property, peers & learning
  - School rules:
    * smartphones off and put them on top of your desk.
    * MP3 players (teacher discretion).
    * hallway pass for travel during classtime
    * no hats or hoods.
- Course change sheet

BELL SCHEDULE

8:30	**Warning Bell**
8:35 - 9:40	**Period 1**
9:45 - 10:50	**Period 2**
10:55 - 12:00	**Period 3**
12:00 - 1:00	**Lunch**
1:00 - 2:05	**Period 4**
2:10 - 3:15	**Period 5**

REMEMBER...

✓ remove your hat and

✓ turn cell phones **OFF**!!!

Thanks for remembering
this is a

Peanut/Nut
Free School

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

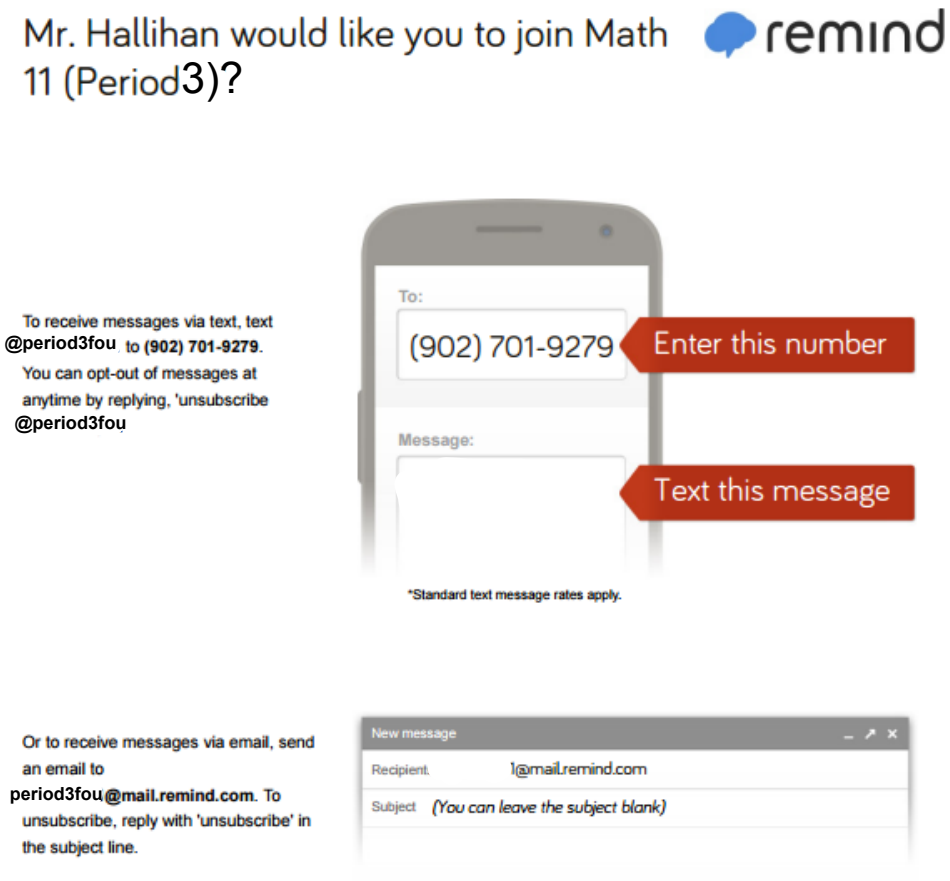
MARKS:

* Academic Incentives are back :-)
* All exams will be valued at 30 %

2016 Academic Incentives.pdf

REMIND APP:

* Text/email daily homework
* Sign-up



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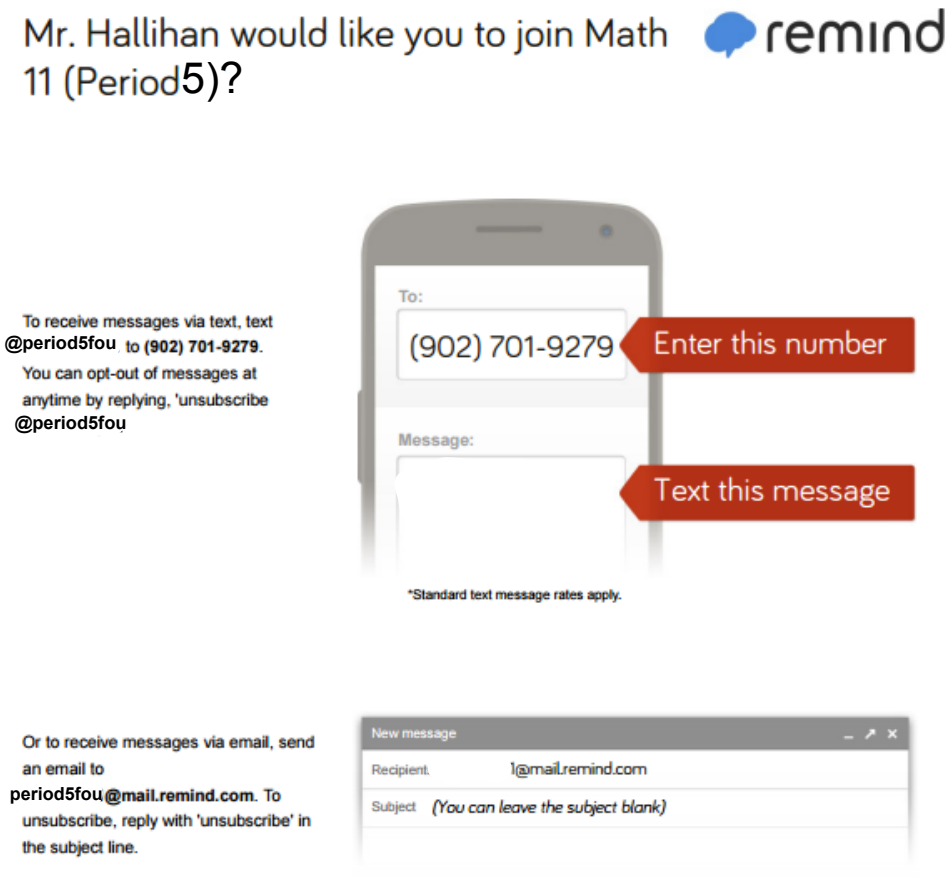


Teacher Website

http://mvhs.nbed.nb.ca

- Every lesson...every day!
- Link to Remind App
- " Wall of Excellence "
  - new semester...set new goals!

Let's Discuss The Course...

Period 3 Course Outline.pdf

Period 5 Course Outline.pdf

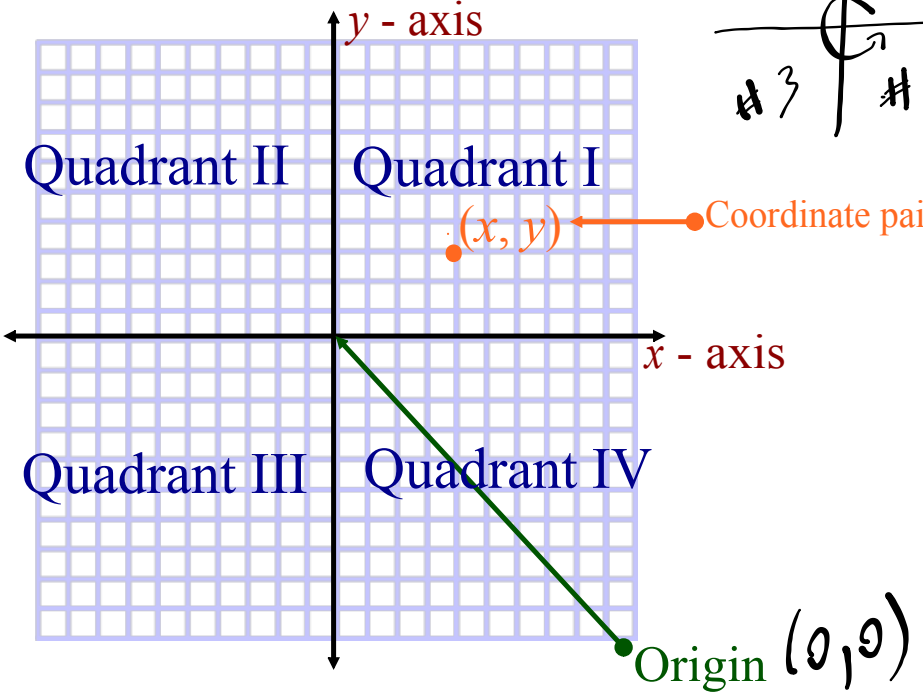
Now it is time to start WORKING...AGAIN!!!

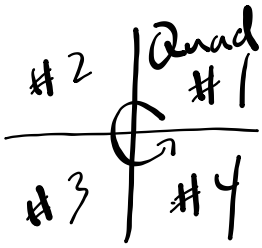
- **INTRODUCTION...**
  - Linear Relations

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

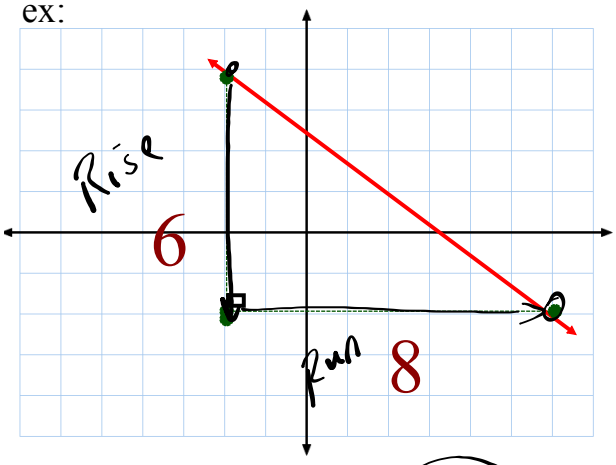
#1. Graph

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

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

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

ex:



#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

Rearrange

$y = mx + b$ ← y int

slope

ex: Determine the slope of...

$3x - 2y - 6 = 0$

$\frac{-2y}{-2} = -\frac{3x}{-2} + \frac{6}{-2}$

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

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

Example...

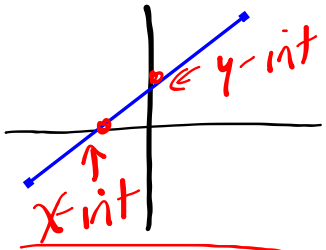
Find the slope of the following line... $6x + 4y - 12 = 0$

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

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

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

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

$2x - 3(0) = 12$

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

$x = 6$

$(6, 0)$ or x-int = 6

y-int

$2(0) - 3y = 12$

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

$y = -4$

$(0, -4)$ or y-int = -4

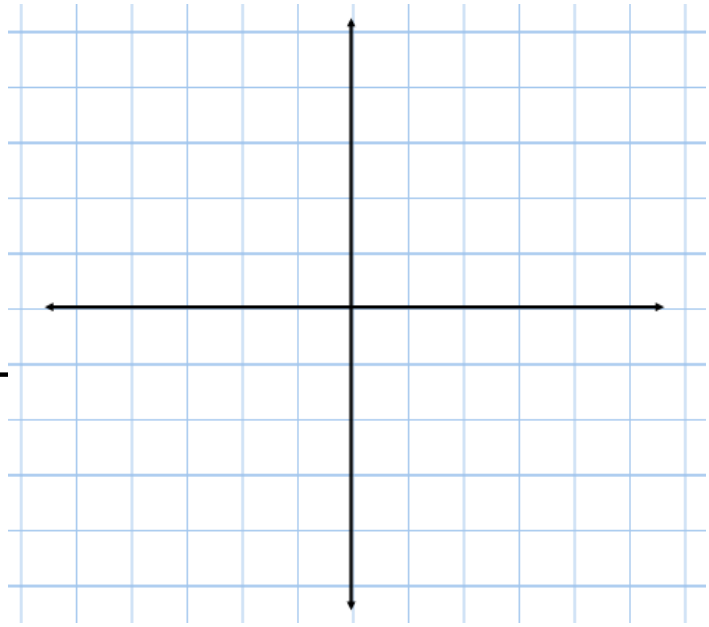
Graphing Linear Functions

NOTES - Graphing Linear Relationships.docx

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

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

x	y

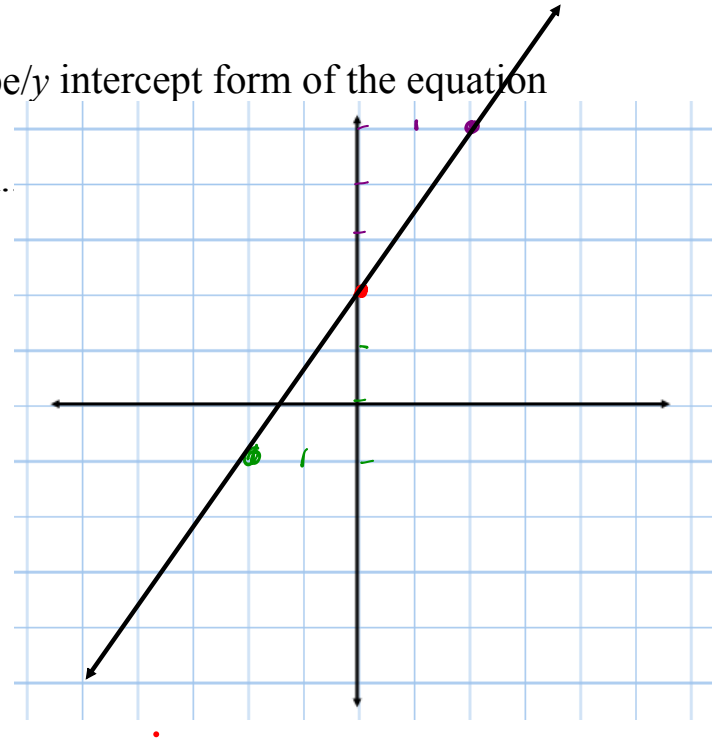


Method #2 - Using the slope/y intercept form of the equation

- put equation in the form.

$y = mx + b$

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



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

$-2y = -3x - 4$

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

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

Rise 3

Run 2

HOMEWORK...

Puzzle Worksheet - Graphing Lines.docx

Attachments

2016 Academic Incentives.pdf

Period 3 Course Outline.pdf

Period 5 Course Outline.pdf

NOTES - Graphing Linear Relationships.docx

Puzzle Worksheet - Graphing Lines.docx