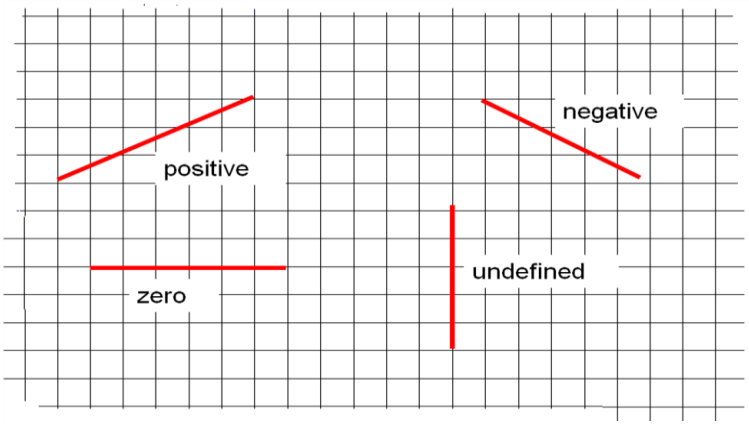
MPM 1DI Reviewing the "Analyse Linear Relations" Unit Date: _____

Go back and review and study quizzes 1, 2, and 3.
Also go back and review/redo the booklet: Reviewing Concepts (from Nov. 19th).

$Slope = \frac{Rise}{Run}$ $m = \frac{y_2 - y_1}{x_2 - x_1}$ [You must know this slope formula!!!]

Summary: Types of Slopes




Graphing (refer to review booklet for help)
1) Using a table of values: choose *x* coordinates, determine *y* coordinates by substitution
2) Using $y = mx + b$: b= (plot b first), m= (use "rise over run" from the point b)
3) Using *x* and *y*-intercepts: *x*-intercept, let *y*=0, plot the *x* point; *y*-intercept, let *x*=0, plot the *y* point

slope, *y*-intercept form: $y = mx + b$ vs. standard form: $Ax + By + C = 0$
You must be able to convert from one form to the other.

Parallel vs. Perpendicular

↳ slopes are equal ↳ slopes are negative reciprocals ex) $3, \frac{-1}{3}$ or $\frac{-2}{3}, \frac{3}{2}$

Finding the equation of a line given: (a variety of pieces of information, including)
a slope and a point on the line
two points on the line
information about parallel to or perpendicular to a given line (including horizontal or vertical lines)
information about having the same *x* or *y*-intercept as a given line

Linear systems
graph both lines and find the Point Of Intersection (P.O.I.)
verify? Do a L.S. and R.S. check

Go back and review and study quizzes 1, 2, and 3.
(I realize that I've just repeated the first item, but it's very important!!)