Topics

Below is a list of topics that will be covered on the Unit 1 Test on October 1. Feel free to use this as a checklist as you study. In addition to using this list and the review packet to prepare for the test, it will be important to read through your notes (warm ups too), and do additional practice problems as you see fit.

Basic Skills: Be able to ...
  a. Apply the order of operations
  b. Solve an equation for one of its variables
  c. Solve literal equations (may involve factoring to isolate the variable)
  d. Solve inequalities and graph solution on a number line
  e. Solve “and” and “or” compound inequalities and graph solutions
  f. Use intersection and union with Venn Diagrams
  g. Recognize when a solution is “all real numbers” or “no solution”
  h. Understand the number set diagram and classification of numbers
  i. Graph an inequality over a specific set of numbers.

Absolute Value Equations Be able to ...
  a. Solve absolute value equations and check solutions

Relations & Functions: Be able to ...
  a. Determine if a relation is a function – from a graph (vertical line test), a set of points or any of the “Many Representations of Functions”
  b. Use function notation to evaluate a function given a certain input and to find the input given a certain output.
  c. Determine the domain & range of a function or a relation

Linear Equations: Be able to ...
  a. Graph a linear function (preferably, in accordance with its form).
  b. Find the slope of a line given 2 points on the line or the graph of the line
  c. Know how to work with various forms of linear equations: Slope-intercept, Point-slope, and General Linear (Standard)
    o Find the equation of a line given its slope and a point on the line
    o Find the equation of a line given 2 points on the line
  d. Find the equations of horizontal and vertical lines, and know their respective slopes
  e. Know the relationship between the slopes of parallel and perpendicular lines
  f. Know how to find the best fit line both by hand and using a calculator.