## Mid Term Exam Review Checklist

## Ch. 1-5

Use your past quizzes, tests, and homework to ensure you can perform each of the following skills below. Be sure you know and can recognize when one method is better used than another!!! For example, be able to recognize when it is best to solve a system using elimination, substitution, graphing... Recognizing which is 'best' for a given problem saves you time, effort, and agony better spent on more dif ficult problems.

Using this checklist, it is recommended that you try out problems that pertain to each skill. Make miniexams out of questions, flash cards, notes, or just do work...

To master this exam, you should be able to:

## Intro unit:

\&olve equations using:
\& ingle and multi-step

\&o solution or all real number solutions
\&Absolute value
\& \&dentify extraneous solutions
\& istributive property
\&Multi-step with fractions and decimals
$\&$ ariables with no numbers present
\& olving equations by graphing (5.5)
\& ${ }^{2}$ imensional Analysis
\&Arithmetic sequences
\&Vriting and interpreting using recursive and explicit means
\&Solve Inequalities
\& Single and multi-step inequalities
\&ompound inequalities
\&Absolute value inequalities
\&Graph inequalities on a number line
\&olve word problems involving inequalities and absolute value

## Chapter 3/4:

\& \&etermine if a relationship is a function
\&Jsing a graph, table, or set of ordered pairs
\&Find the domain and range
\&Understand and use function notation ( $\mathrm{f}(\mathrm{x})$ )
\& Domain and Range
\&omposite functions
\& Berform transformations on a graph and on a fixed point ( $\mathrm{x}, \mathrm{y}$ )
\&Rotations, re flections, dilations, translations
\&Graph linear equations in standard form by finding x and y intercepts
\& Calculating, representing, and finding slope of a line, graph, table, or equation
\&Graph linear equations in slope intercept form
\&Converting between standard form and slope-intercept form, and vice versa \&Find the equation of a line if given certain information
\&A point and a slope
\&A slope and y intercept
\&A point and a point
\&Using point slope formula

\&birect and inverse variation
\&Graphing absolute value functions
\&Graphing and/or writing equations for piecewise functions

## Mini unit on measures of central tendency:

\&Create a scatterplot
\&Approximating a best fit line
\& Interpreting linear regression
\& Interpreting correlation coef ficient, residuals, causation
\&interpret a list of data
\&Vith standard deviation
\&Approximate bell curve percentage intervals
\&Mean Absolute Deviation

## Chapter 5:

\&Solving linear systems of equations by graphing
\&Solving linear systems of equations by substitution
\&olving linear systems of equations by elimination/combination
\& Kolving special linear systems
\& In finite and no solution
\&Graphing inequalities on a coordinate grid
\&Solve and graph systems of inequalities
\& Enterpreting a linear programming model
\&osolve word problems involving systems
\&including boat problems, stock/bond, mixture, etc...

