Chapter 7 Test Review

Topics

- Plotting ordered pairs
- Graphing functions using the point-plot method
- Evaluating functions
- Vertical Line Test
- Graphing lines using intercepts or the slope-intercept form
- Graphing horizontal & vertical lines
- Calculating slope given two points
- Knowing when the slope of a line is 0 or undefined
- Determining whether a parabola opens up or down & whether it has a max or min
- Using the vertex to determine the maximum or minimum of a quadratic function
- Finding the intercepts & vertex of a parabola
- Graphing parabolas
- Finding populations using exponential functions
- Matching the graphs of exponential functions to their equations
- Finding the value of *e* on your calculator
- Graphing exponential functions
- Checking whether an ordered pair is a solution to a system of equations
- Solving systems of equations by graphing, substitution, & addition
- Solving systems of equations with infinite or no solutions
- Finding where two lines intersect
- Graphing systems of linear inequalities
- Setting up & solving linear programming problems

Formulas to memorize:

Slope-intercept form of a line: $y = mx + b$

Slope of the line between two points: $m = \dfrac{y_2 - y_1}{x_2 - x_1}$

Vertex of a parabola: $x = \dfrac{-b}{2a}$

Extra credit review problems (10 points, due when you take the test)

7.1: 4,15,17,19,22,34,40,49,56
7.2: 4,13,16,19,37,43,46
7.3: 1,5,11,22,27,44
7.4: 1,2,8,11,24 Give the value of *e* rounded to the nearest ones, tenths, hundredths, & thousandths place
7.5: 2,11,20,30,38,44,47,52
7.6: 8,31,33
7.7: 13

General Info:

Be sure to show your work.
Bring a calculator to the test. You may not use your cell phone.
Please do not talk to anyone about the test who hasn't taken it yet, as there are two sections of this class.