**ALGEBRA 2 - CHAPTER 2 TEST STUDY TOPICS**

* Be able to sketch a graph of a parabola that is given in Graphing (Vertex) Form
* Be able to sketch the graph of an absolute value function and identify its domain and range
* Be able to put an equation of a parabola in graphing (vertex) form by completing the square and describe the transformation from the parent graph.
* Be able to solve quadratic equations by using a greatest common factor or factoring, solving by square roots and/or the quadratic formula
* Be able to solve a system of equations and explain the meaning of the solution.
* Write an exponential equation given two points. $y=ab^{x}$
* Be able to write a linear equation given a graph and explain in detail how to do so
* Simply radical expressions including negative and fractional exponents
* Find missing angles or side lengths in right triangles using trigonometric ratios
* Find the distance between two given points and also be able to write the equation of a line through two given points.
* Sketch a model of a real world situation that fits the form of a parabola. Be able to write the equation of the model in vertex form finding the vertex (h,k) and the stretch factor “a”.

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