**ALGEBRA 2 - CHAPTER 7 TEST STUDY TOPICS**

* Given a graph of a parabola representing a real world situation, be able to completely describe the relationship all key points including intercepts and max or minimums.
* Given a unit circle with an angle and ordered pair shown, define the cosine, sine and angle in both degrees and radians.
* Convert degrees to radians and give exact values of sine, cosine and tangent (using special right triangles)
* Explain the difference between the graph of a sine function and cosine function.
* Identify a sine or cosine function based on a given ordered pair such as (-1,0)
* Convert degrees to radians and convert radians to degrees.
* Be able to add or subtract rational expressions. Be sure to factor and simplify after adding or subtracting
* Solve an exponential equation by taking the log of both sides.
* Be able to write the inverse of a function (switch x and y and solve for y)
* Given a growth or decay situation, be able to write the equation and evaluate.
* Be able to put an equation for a parabola in vertex form and identify if the vertex is a maximum or minimum

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