**ALGEBRA 2 - CHAPTER 6 TEST STUDY TOPICS**

* Be able to factor completely and simplify Rational Expressions (Remember difference of perfect squares)
* Simplify an expression with a negative exponent (Ex: $(-3)^{-5}$ )
* Be able to add or subtract rational expressions. Be sure to factor and simplify after adding or subtracting
* Identify points that do or do not lie on the x, y, or z axis and explain why.
* Solve a system of equations with 3 variables (3 equations)
* Find the equation of a parabola given 3 points.
* Solve an exponential function by taking the log of both sides.
* Be able to write and give an example of the logarithmic properties (Product Property, Quotient Property, Power Property, Change of Base)
* Be able to write the inverse of a function (switch x and y and solve for y)
* Evaluate a composite function for a given input
* Solve absolute value equations.
* Given a growth or decay situation, be able to write the equation and evaluate for given times.
* Be able to put an equation for a parabola in vertex form.

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