**Algebra 4: 2nd Semester Final Review**

Equations to Know  
Exponential Growth  
Exponential Decay  
Compound Continuously  
P(A or B) =  
P(A and B) =  
Standard Deviation  
Variance  
Combination  
Permutation  
Log to Exponential Form

Chapter 4 & 5 Quadratics and Polynomials  
Solve (graphing and find roots)  
Solve with quadratic formula (if imaginary)  
Use synthetic division if roots can’t be found graphing

Chapter 11 Probability and Stats  
Probability of Marbles  
Mutually Exclusive  
Factorials  
Mean, Median, Mode, Range  
Variance, Standard Deviation, and  
Normal Distribution

Chapter 6 Rational Exponents  
Multiply Radicals  
Simplify with Rational Exponent  
Given f(x) and g(x)  
 Add, Multiply, Composition  
Solve Radical Equations

Chapter 7: Exponential and Log  
Rewrite log and exponential form  
Evaluate logs  
Solve log/exponential equations  
Compound continuously