**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

ACT Review  
Evaluate functions  
Find Midpoint  
Find Mean  
  
Chapter 7: Exponential and Log  
Rewrite log and exponential form  
Evaluate logs  
Solve log/exponential equations  
Compound continuously

**Algebra 4: 2nd Semester Final Review Problems**  
  
  
***Chapter 4 Quadratics***

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***Chapter 5 Polynomials***

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***Chapter 11 Probability***

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***ACT Review  
  
Chapter 11 Stats***

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***Chapter 7: Exponential and Log***

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