

NC Math 3 Course Overview B – Inverse Functions, Exponential & Logarithmic

09/28 – 10/30

This section of Math 3 will cover the following standards...

NC.M3.A-CED.1 Create equations and inequalities in one variable that represent absolute value, polynomial, exponential, and rational relationships and use them to solve problems algebraically and graphically.

NC.M3.A-CED.2 Create and graph equations in two variables to represent absolute value, polynomial, exponential and rational relationships between quantities.

NC.M3.A-SSE.3c Write an equivalent form of an exponential expression by using the properties of exponents to transform expressions to reveal rates based on different intervals of the domain.

NC.M3.F-IF.4 Interpret key features of graphs, tables, and verbal descriptions in context to describe functions that arise in applications relating two quantities to include periodicity and discontinuities.

NC.M3.F-BF.1a Build polynomial and exponential functions with real solution(s) given a graph, a description of a relationship, or ordered pairs (include reading these from a table).

NC.M3.F-BF.4 Find an inverse function.

- Understand the inverse relationship between exponential and logarithmic, quadratic and square root, and linear to linear functions and use this relationship to solve problems using tables, graphs, and equations.
- Determine if an inverse function exists by analyzing tables, graphs, and equations.
- If an inverse function exists for a linear, quadratic and/or exponential function, f , represent the inverse function, f^{-1} , with a table, graph, or equation and use it to solve problems in terms of a context.

NC.M3.F-LE.4 Use logarithms to express the solution to $ab^{ct} = d$ where a , c , and d are numbers and evaluate the logarithm using technology.

Tentative Date for Quiz B: Tuesday, October 30, 2018

Date	I can...	A#	Assignment	Follow Up?
9/28/18				
10/01/18				
10/02/18				
10/03/18				
10/04/18				

Date	I can...	A#	Assignment	Follow Up?
10/05/18				
10/08/18				
10/09/18				
10/10/18				
10/11/18				
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	Review for Unit B Test			