

NC Math 3 Course Overview C – Polynomial Functions

November 2 – December 13

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

<p>NC.M3.G-GMD.3 Use volume formulas for prisms, cylinders, pyramids, cones, and spheres to solve problems.</p> <p>NC.M3.G-MG.1 Apply geometric concepts in modeling situations.</p> <p>NC.M3.N-CN.9 Use the Fundamental Theorem of Algebra to determine the number of potential types of solutions for polynomial functions.</p> <p>NC.M3.A-SSE.1 Interpret expressions that represent a quantity in terms of its context.</p> <p>NC.M3.A-APR.2 Understand and apply the Remainder Theorem.</p> <p>NC.M3.A-APR.3 Understand the relationship among factors of a polynomial expression, solutions of a polynomial equation, and zeros of a polynomial function.</p> <p>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.</p> <p>NC.M3.A-CED.2 Create and graph equations in two variables to represent absolute value, polynomial, exponential and rational relationships between quantities.</p> <p>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.</p>	<p>NC.M3.F-IF.7 Analyze piecewise, absolute value, polynomials, exponential, rational, and trigonometric functions using different representations to show key features of the graph, by hand in simple cases and using technology form more complicated cases, including: domain and range; intercepts; intervals where the function is increasing, decreasing, positive, or negative; rate of change; relative maximums and minimums; symmetries; end behavior; period; and discontinuities.</p> <p>NC.M3.F-IF.9 Compare key features of two functions using different representations by comparing properties of two different functions, each with a different representation (symbolically, graphically, numerically in tables, or by verbal descriptions).</p> <p>NC.M3.F-BF.1 Write a function that describes the relationship between two quantities.</p> <p>NC.M3.F-BF.3 Extend an understanding of the effects on the graphical and tabular representations of a function when replacing $f(x)$ with $k \cdot f(x)$, $f(x) + k$, $f(x + k)$ to include $f(k \cdot x)$ for specific values of k (both positive and negative).</p> <p>NC.M3.F-LE.3 Compare the end behavior of functions using their rates of change over intervals of the same length to show that a quantity increasing exponentially eventually exceeds a quantity increasing as a polynomial function.</p>
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Tentative Date for Test C: Thursday, December 13, 2018

Date	I can...	A#	Assignment	Follow-Up?
11/2/18				
11/5/18				
11/6/18				
11/7/18				
11/8/18				
11/9/18				
11/13/18				
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Date	I can...	A#	Assignment	Follow-Up?
11/15/18				
11/16/18				
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12/07/18				
12/10/18				
12/11/18	I can prepare for my assessment.		Unit C Review	