





# Honors Math 3

## Unit 3 – Polynomial Functions

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Keep track of your concept progress by checking the appropriate box as we go through the unit

	 <i>I Can...</i>	<i>Know a little</i> 	<i>Need Practice</i> 	<i>I Got it!</i> 
1	Identify a cubic function from the rate of change.			
2	Describe the features of $(x) = x^3$ .			
3	Graph cubic functions in the form: $f(x) = a(x - h)^3 + k$			
4	Describe the similarities and differences between cubic functions and quadratic functions.			
5	Add polynomials both algebraically and graphically.			
6	Subtract polynomials both algebraically and graphically.			
7	Multiply polynomials using the distributive property.			
8	Use Pascal's Triangle to raise a binomial to a power.			
9	Use the Fundamental Theorem of Algebra to determine how many roots a polynomial has.			
10	Write a polynomial in factored form, given the roots of the polynomial.			
11	Find the other roots of a polynomial given a factor or root.			
12	Describe pairs of irrational or imaginary roots of polynomials.			
	Determine the end behavior of a polynomial of a given degree.			



**Unit Reflection:** This is my plan on how to improve my “Know a Little” & “Need Practice” line numbers.

Plan # 1 \_\_\_\_\_

Plan # 2 \_\_\_\_\_

Plan # 3 \_\_\_\_\_

Plan # 4 \_\_\_\_\_