



Unit 2 (Chapter 5): POLYNOMIALS AND POLYNOMIAL FUNCTIONS

I am not perfect; the syllabus can be modified at any time. Live in fear...

DAY	Aim#	SECTION	TOPIC	PAGE	PROBLEMS
Wed. 9/13	5	4.6	<i>Perform Operations with Complex Numbers</i>	p. 279	#1, 2, 7, 11, 17, 19, 25, 31, 33, 35, 37, 43, 49, 51, 55, 65-67
Thurs. 9/14	6	4.8	<i>Use the Quadratic Formula and the Discriminant</i>	p. 296	#17, 20, 31, 33, 35, 36, 44, 47, 52-54, 57, 62, 68, 70
Fri. 9/15	7	5.1	<i>Use Properties of Exponents</i>	p. 333	3-13 ODD, 25-35 odd, 36, 43-45, 55, 56
Mon. 9/18	8	5.2	<i>Evaluate and Graph Polynomial Functions</i>	p. 341	1-8, 9-, 15, 19, 24-27, 29-35 ODD, 38, 41, 43, 46, 48, 50
Tues. 9/19	9	5.3	<i>Add, Subtract, and Multiply Polynomials</i>	p. 349	3-47 E.O.O.
Wed. 9/20	10	5.4	<i>Factor and Solve Polynomial Equations</i>	p. 356	1, 3-9, 14, 15, 19, 23, 27, 29, 31, 35, 39, 43, 49
Thurs. 9/21		Review/ Practice	4.6, 4.8, 5.1-5.4		•Study for QUIZ
Fri. 9/22			☛4.6, 4.8, 5.1-5.4 Quiz A		
Mon. 9/25	11	5.5	<i>Apply the Remainder and Factor Theorem</i>	p. 366	2, 3-19 E.O.O. , 21-33 E.O.O, 35
Tues. 9/26	12	5.6	<i>Find Rational Zeros</i>	p. 374	3-35 E.O.O., 41-43
Wed. 9/27	13	5.7	<i>Apply the Fundamental Theorem of Algebra</i>	p. 383	3-31 E.O.O., 35-49 E.O.O.
Thurs. 9/28	14	5.8	<i>Analyze Graphs of Polynomial Functions</i>	p. 390	3-27 E.O.O. 30
Fri. 9/29	15	5.9	<i>Write Polynomial Functions and Models</i>	p. 397	3-9 ODD, 19, 21, 25, 27
Mon. 10/2		Review/ Practice	5.5-5.9		•Study for QUIZ
Tues. 10/3			☛5.5-5.9 Quiz B		
Wed. 10/4		Review	<i>Unit 2 Review</i>	p. 402	1-41 ODD •Study for TEST
Thurs. 10/5		Review	☛Unit 2 TEST		

Unit 2: Polynomials & Polynomial Functions	Section	Rate Post
I can solve a quadratic equation using complex numbers.	4.6	
I can add, subtract, multiply, and divide complex numbers.	4.6	
I can plot complex numbers in a coordinate plane.	4.6	
I can solve quadratic equations using the quadratic formula.	4.8	
I can find the discriminant of a quadratic equation and identify the number and type of solutions.	4.8	
I can evaluate numerical expressions involving powers	5.1	
I can simplify expressions involving powers using the properties of exponents	5.1	
I can identify and evaluate polynomial functions.	5.2	
I can use direct and synthetic substitution to evaluate polynomial functions.	5.2	
I can identify the end behavior and graph a polynomial function.	5.2	
I can add, subtract, and multiply polynomials	5.3	
I can completely factor a polynomial function using sum/difference of two cubes, difference of two squares, grouping, and/or trinomials methods.	5.4	
I can find all real number solutions to polynomials functions after factoring.	5.4	
I can divide polynomials using long division and/or synthetic division.	5.5	
I can use the Factor Theorem and Remainder Theorem to solve polynomial functions.	5.5	
I can use the Rational Zero Theorem to find all real zeros of a polynomial function.	5.6	
I can use the Fundamental Theorem of Algebra to find the number of solutions to a polynomial function.	5.7	
I can use the Fundamental Theorem of Algebra to find all zeros of a polynomial function.	5.7	
I can use the Conjugates Theorem to write the equation of a polynomial function given the zeros.	5.7	
I can use x-intercepts to graph a polynomial function.	5.8	
I can identify turning points of a polynomial functions to help graph the function.	5.8	
I can write the equation of a higher-degree polynomial function given points that lie on the function	5.9	
I can use the Properties of Finite Differences to write the equation of a higher-degree polynomial function.	5.9	
I can use a graphing calculator to find a polynomial function that fits given data points.	5.9	