Rectangular	1-1 Rectangular	1.1 Rectangular	1.2 Graphs of Equations	Continued from Thursday	
coordinates,	Coordinates	Coordinates	-sketching with inputs	Pg. 22 #	
functions and	-review of formulas	-review of formulas	-intercepts	1,3,12,13,15,18,19,25,28,	
their graphs	Pg. 9 #1-29 odd in class	Pg. 9 #28, 35, 49, 55, 56,	-symmetry and testing	31,35,37,39,41,47,49	
		63, 65, 66	-standard formulas		
			Pg. 22 various problems		

Rectangular	Quiz section 1.1 and	Review and continue	1.3 Linear Equations in	1.3 continued	Create graphs of	
coordinates,	1.2 in class	quiz material in class.	Two Variables	-parallel and	common functions and	
functions and			-slope intercept formula	perpendicular lines	parent functions	
their graphs			-finding slope	Pg. 35 #69,74,75,93,97		
			Pg. 34 #			
			2.3,15,16,18,36,44,45,			
			48,51,56,66			

Rectangular	1.4 Functions	1.4 Functions	Quiz section 1.3 and 1.4	Quiz continued	Classroom discussion
coordinates,	-definitions and testing	-definitions and testing	in class		of material with
functions and	-evaluating inputs	-evaluating inputs			applications of
their graphs	-function intersections	-function intersections			information, group
	-function domains	-function domains			project
	Pg. 48 #1-8,11-27,31-41	Pg. 48 #45-69,79			
	odd				

Rectangular	1.5 Analyzing graphs	1.5 Analyzing graphs	1.5 Analyzing graphs and	1.5 Analyzing graphs and	1.5 Analyzing graphs and
coordinates,	and functions	and functions cont.	functions	functions	functions
functions and	-domain and range	-increase, decrease,	-determining positive	-determine average rate	-determine even and odd
their graphs	-function values	constant	intervals or range	of change through slope	functions
	Function tests	Pg. 62 #31-48 all	Pg. 63 #55-62 all	Pg. 63 #63-70 all	-determine elements of
	-zeros				symmetry
	Pg. 61 #1-24 all				Pg. 63 #71-76 all

Parent functions with: transformations, combinations, inverse, mathematical modeling and variation	1.5 Analyzing graphs and functions -determine even and odd functions -determine elements of symmetry Pg. 63 #71-76 all	Quiz 1.4 and 1.5 in class	1.6 Parent Functions -Identify parent functions and their qualities -Use inputs for outcomes Pg. 71 #1,2,6,29,30,32,35	1.6 Parent Functions -Identify parent functions and their qualities -sketch graphs of functions Pg. 71 #37-45 all, 50	1.6 Parent Functions -create transformed functions and equations -sketch graphs of functions Pg. 72 #53-61 all, 64, 66	
Parent functions with: transformations, combinations, inverse, mathematical modeling and variation	1.6 Parent Functions -create transformed functions and equations -sketch graphs of functions Pg. 72 #53-61 all, 64, 66	1.7 Transformations of functions -shift functions with alteration of constants -apply to parent functions and their transformations -shifts and reflections Pg. 79 #1-6 all	 1.7 Transformations of functions -shift functions with alteration of constants -apply to parent functions and their transformations -shifts and reflections Pg. 79 #7-18 all 	 1.7 Transformations of functions -shift functions with alteration of constants -apply to parent functions and their transformations -shifts and reflections Pg. 79 #19-42 select problems 	Quiz section 1.7 Graph parent function and transformations	
Parent functions with: transformations, combinations, inverse, mathematical	Continue 1.8 Combinations of Functions: composite functions -sum, difference, product and quotient functions	Continue 1.8 Combinations of Functions: composite functions -composition of two functions -classroom discussion	Continue 1.8 Combinations of Functions: composite functions -composition of two functions -classroom discussion	Section 1.8 worksheet 1 To be done in groups during class		

modeling and variation	-classroom discussion Pg. 89 #1-12 all	Pg. 89 #13-27 odd	Pg. 89 #31-41 odd, 45, 55, 56		
Parent functions with: transformations, combinations, inverse, mathematical modeling and variation	Section 1.8 worksheet 1 To be done in groups during class	Section 1.8 worksheet 2 To be done independently during class	Section 1.8 worksheet 2 To be done independently during class		

Parent functions	Section 1.8 worksheet 2	Section 1.8 worksheet	1.9 Inverse functions	1.9 Inverse functions	1.9 Inverse functions	
with:	To be done	2	-solving functions	-determining if functions	-determining if functions	
transformations,	independently during	To be done	-graphing applications	have inverses	have inverses	
combinations,	class	independently during		-horizontal line test	-horizontal line test	
inverse,		class	Pg. 99 #1-23 odd	-graphing applications	-graphing applications	
mathematical						
modeling and				Pg. 99 #25-53 odd	Pg. 100 #55-67 odd	
variation						

Parent functions	Introduction of aqua	Introduction of aqua	Section 1.9 worksheet 3	Section 1.9 worksheet 3	
with:	pod project	pod project	To be done in groups	To be done	
transformations,	-weather permitting,	-weather permitting,	during class	independently during	
combinations,	take students to	take students to		class	
inverse,	experiment with aqua	experiment with aqua			
mathematical	pod	pod			
modeling and	-discuss parabolic	-discuss parabolic			
variation	applications	applications			
	-outline, assign project	-outline, assign project			

Parent functions	Section 1.8 worksheet 3	Section 1.8 worksheet	Section 1.9 worksheet 4	Section 1.9 worksheet 4	
with:	To be done	3	To be done in groups	To be done	
transformations,	independently during	To be done	during class	independently during	
combinations,	class	independently during		class	
inverse,		class			
mathematical					
modeling and					
variation					

Parent functions	Review chapter 1 for	Chapter one test	Review test in class		
with:	test on Tuesday.				
transformations,					
combinations,					
inverse,					
mathematical					
modeling and					
variation					

Pre – Calculus .	2.1 Quadratic functions	2.2 Polynomial Functions	2.2 Polynomial Functions	2.1 – 2.2 quiz in class	
Enrichment: Application examples of functions in business	and models -definitions, graphs, symmetry, axis -standard form equation Pg. 134 #1-9 all, 13-29 odd, 35, 37-44 all	of Higher Degree -graph of polynomials -graphs with transformations Pg. 149 #1-8 all,9-21 odd	of Higher Degree -Determining zeros -turning points of graphs Pg. 149 #27-65 various problems		

Pre – Calculus	2.2 Polynomial	2.2 Polynomial	2.1 – 2.2 quiz in class	2.3 Polynomial and	2.3 Polynomial and	
Enrichment:	Functions of Higher	Functions of Higher		synthetic division	synthetic division	
Application	Degree	Degree		-long division of	-cubic polynomial	
functions in	-graph of polynomials	-Determining zeros		polynomials	-remainder theorem	
business	-graphs with	-turning points of		-division algorithm	Pg. 159 #19-35 odd	
	transformations	graphs		Pg. 159 #5-17 odd		
	Pg. 149 #1-8 all,9-21	Pg. 149 #27-65 various				
	odd	problems				

Pre – Calculus	2.2 Polynomial	2.2 Polynomial	2.1 – 2.2 quiz in class	Paper Airplane project	Paper Airplane project	
Enrichment:	Functions of Higher	Functions of Higher		lab write ups due	lab write ups due	
Application	Degree	Degree		-class will complete with	-class will complete with	
functions in	-graph of polynomials	-Determining zeros		paper airplane designs to	paper airplane designs to	
business	-graphs with	-turning points of		determine winners	determine winners	
	transformations	graphs				
	Pg. 149 #1-8 all,9-21	Pg. 149 #27-65 various				
	odd	problems				

Pre – Calculus	2.3 Polynomial and	2.3 Polynomial and	2.3 Polynomial and	2.3 quiz in class	
Enrichment:	synthetic division	synthetic division	synthetic division		
Pg. 149 #41 and 46	-long division of	-cubic polynomial	-factor theorem		
	polynomials	-remainder theorem	-remainder in synthetic		
	-division algorithm	Pg. 159 #19-35 odd	division		
	Pg. 159 #5-9 all, 11, 13-		Pg. 159 #37-43 odd, 49 -		
	17 all		53 odd		

Pre – Calculus Enrichment: Pg. 159 #17	2.4 Complex numbers -definitions -addition and subtraction -multiply, conjugates -square roots Pg. 167 #1-26 all	2.4 Complex numbers -definitions -addition and subtraction -multiply, conjugates -square roots Pg. 167 #27-53 all	2.4 Complex numbers -definitions -addition and subtraction -multiply, conjugates -square roots Pg. 167 #57-63, 65-69	2.4 Complex numbers -definitions -addition and subtraction -multiply, conjugates -square roots Pg. 167 #57-63, 65-69	
			odd, 76, 82	odd, 76, 82	

Pre – Calculus	2.5 Zeros of polynomial	2.5 Zeros of polynomial	2.5 Zeros of polynomial		
Enrichment:	functions	functions	functions		
Bonus problem on	-fund thm. Of alg.	-fund thm. Of alg.	-fund thm. Of alg.		
quiz	-linear factorization	-linear factorization	-linear factorization		
	-rational zero test	-rational zero test	-rational zero test		
	-conjugate pairs	-conjugate pairs	-conjugate pairs		
	Pg. 179 #1-10 all	Pg. 179 #11-23 odd	Pg. 179 #25-31 odd, 37,		
			39, 43, 44, 47, 48, 49		

Pre – Calculus		2.5 Zeros of polynomial	Worksheet 2.4 – 2.5	2.6 rational functions	2.6 rational functions	
Enrichment:	functions		-vert. hor. Asy.	-vert. hor. Asy.		
auiz		-fund thm. Of alg.		-asymptotes of rational	-asymptotes of rational	
4+		-linear factorization		functions	functions	
		-rational zero test		-Sketching	-Sketching	
		 -conjugate pairs 		Pg. 193 #1-11 odd, 13-16	Pg. 193 #17-35 odd, 41,	
		Pg. 179		all	43, 45	
		#55,56,57,59,60,71				

Pre – Calculus	2.6 rational functions	2.6 rational functions	Quiz section 2.6	2.7 Nonlinear	2.7 Nonlinear	
Enrichment:	-vert. hor. Asy.	-vert. hor. Asy.		Inequalities	Inequalities	
Bonus problem on	-asymptotes of rational	-asymptotes of rational		-testing intervals	-testing intervals	
quiz 2.4 and 2.5	functions	functions		-apply to number line	-apply to number line	
	-Sketching	-Sketching		-rational inequalities	-rational inequalities	
	Pg. 193 #17-35 odd, 41,	-slant asy.		Pg. 204 #1-19 odd	-higher order	
	43, 45	Pg. 193 #47, 51-61 odd		_	polynomials	
					Pg. 204 #21, 23, 25	

Pre – Calculus	2.7 Nonlinear	2.7 Nonlinear	2.7 quiz	Chapter review/class
Enrichment: Bonus problem on quiz 2.4 and 2.5	Inequalities -testing intervals -apply to number line -rational inequalities -higher order polynomials Pg. 204 #21, 23, 25	Inequalities -testing intervals -apply to number line -rational inequalities Pg. 204 #37-49 odd		test

Pre – Calculus	2.7 quiz	3.1 Exponential	3.1 Exponential functions	3.1 Exponential functions	Uncle Bubba's Cajon	
Enrichment:		functions and their	and their graphs	and their graphs	Boar Back's worksheet	
Bonus problem on		graphs	-calculator application	-compound interest with		
quiz 2.4 anu 2.5		-definitions	-graphs	intervals		
		-graphs	-one to one properties	-compound interest		
		-one to one properties	Pg. 226 #27-32 all,45-52	continuous		
		Pg. 226 #1-10 all, 11-19	all	-formulas		
		odd, 20-22 all		Pg. 227 #53-61 odd, 62,		
				63, 67		

Pre – Calculus Enrichment: Bonus problems found within chapter 3 worksheets	3.2 Logarithmic Functions and graphs -definition with base a -properties of log -calculator application -one to one property -graphs of functions -shifting graphs Pg. 236 #1-16 all	3.2 Logarithmic Functions and graphs -definition with base a -properties of log -calculator application -one to one property -graphs of functions -shifting graphs Pg. 236 #17-30 all				
Pre – Calculus Enrichment: Bonus problems found within chapter 3 worksheets	3.2 Logarithmic Functions and graphs -definition with base a -properties of log -calculator application -one to one property -graphs of functions -shifting graphs Pg. 236 #17-30 all	3.2 Logarithmic Functions and graphs -definition with base a -properties of log -calculator application -one to one property -graphs of functions -shifting graphs Pg. 236 #17-30 all	3.2 Logarithmic Functions and graphs -definition with base a -properties of log -calculator application -one to one property -graphs of functions -shifting graphs Pg. 236 #31-37 odd, 39- 64 all	3.1 -3.2 worksheet in class	3.3 Properties of Logarithms -change Base b, base 10, base e -calculator application Pg. 243 #1-16 all	

Pre – Calculus	3.3 Properties of	Quiz pg. 243 #32-38 all	3.3 Properties of	3.3 Properties of	Quiz	
Enrichment:	Logarithms		Logarithms	Logarithms		
Bonus problems	-change Base b, base 10,		-change Base b, base 10,	-change Base b, base 10,		
chapter 3	base e		base e	base e		
worksheets	-calculator application		-product, quotient, and	-product, quotient, and		
	-product, quotient, and		power property	power property		
	power property		-expanding logs	-condense logs		
	Pg. 243 #17-31 all		Pg. 243 #39-59 all	Pg. 243 #61-77 odd		

Pre – Calculus Enrichment:	3.4 exponential/logarithmic	3.4 exponential/logarithmic	3.4 exponential/logarithmic	3.4 exponential/logarithmic	3.4 exponential/logarithmic	
Bonus problems found within chapter 3 worksheets	equations -strategies for solving equations step 1,2,3 Pg. 253 #1-7 all	equations -strategies for solving equations step 1,2,3 -solve for variable using properties Pg. 253 #9-24 all	equations -strategies for solving equations step 1,2,3 -solve for variable using properties -calculator applications	equations -strategies for solving equations step 1,2,3 -solve for variable using properties Pg. 253 #47-67 odd	equations -strategies for solving equations step 1,2,3 -solve for variable using properties Pg. 253 #93-100 all	
Pre – Calculus Enrichment: Bonus problems found within chapter 3 worksheets	3.4 exponential/logarithmic equations -strategies for solving equations step 1,2,3 -solve for variable using properties Pg. 253 #93-100 all	Test section 3.3 and 3.4 in class	3.5 Exponential and logarithmic models -graphs of different models of growth and decay -financial model with equations Pg. 264 # 1-14 all	3.5 Exponential and logarithmic models -graphs of different models of growth and decay -financial model with equations Pg. 264 # 15 - 19 all	3.5 Exponential and logarithmic models -radio active decay rates Pg. 264 #25-27, 30-34 all	

Pre – Calculus	3.5 Exponential and	3.5 Exponential and	4.1 Radian and degree	4.1 Radian and degree	4.1 Radian and
Enrichment:	logarithmic models	logarithmic models	Measure	Measure	degree Measure
Bonus problems	-graphs of different	-graphs of different	-definitions, directions	-conversions	-definitions,
chapter 3	models of growth and	models of growth and	-co terminal angles	-co terminal angles	directions
worksheets	decay	decay	-	-	-arc length
	-financial model with	-financial model with	compliment/supplement	compliment/supplement	-linear/angular speed
	equations	equations	Pg. 290 #1-45 odd	Pg. 290 #47-69 odd	-area of sector
	Pg. 264 # 35, 37-40all,	Pg. 264 # 35, 37-40all,			Pg. 292 #83-94 all
	51,52	51,52			

Pre – Calculus Enrichment: Bonus problems found within chapter 3 worksheets	4.1 worksheet Applications of angular and linear velocity #1-14 all	4.1 supplementary problems worksheet #1-7 all Focus on conversion of units	4.1 Arc length, angular and Linear velocity worksheet Choose 9 of 1-12 all	4.1 Arc length, angular and Linear velocity worksheet Choose 9 of 1-12 all	
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Pre – Calculus	Applications of linear	Applications of linear	4.1 Arc length, angular	Continue 4.1 Arc length,	Quiz	
Enrichment: Bonus problems found within	and angular velocity Worksheet in class with	and angular velocity Worksheet 2 in class	and Linear velocity worksheet	angular and Linear velocity worksheet	Arc length, angular and Linear velocity	
chapter 3 worksheets	groups	-apply different applications	CHOOSE 3 OF 1-12 All	CHOOSE 9 OF 1-12 all	Choose 9 of 1-12 all	

Pre – Calculus	4.2 evaluating trig	4.2 evaluating trig	Determine two	Evaluate trig functions	Evaluate trig functions	
Enrichment: Bonus problems	functions using period	functions using period	coterminal angles,	worksheet	worksheet continued	
found within	-evaluate exact trig	-evaluate exact trig	conversion of angles			
chapter 4 worksheets	calculator	calculator	worksheet			
Worksheets	Pg. 299 # 1,3,5-12, 13-	Pg. 300 #29-41 odd, 43-				
	25 odd	52 all				

Pre – Calculus	Angular Lab Sheet	Angular lab sheet	4.3 right triangle trig	4.3 right triangle trig	4.3 right triangle trig	
Enrichment:			-six trig functions	-six trig functions	-six trig functions	
Bonus problems			-use of unit circle	-use of unit circle	-use of unit circle	
tound within chapter 4			Pg. 308 #1-15 odd	-application of trig	-application of trig	
worksheets				functions	functions in story	
				Pg. 308 #17-25 odd, 59-	problems	
				62 all	Pg. 308 #63-68 all	

Pre – Calculus	4.4 Trig functions of any	4.4 Trig functions of any	4.4 Trig functions of any	4.4 Trig functions of any	
Enrichment:	angle	angle	angle	angle	
Bonus problems	-use of terminal side	-use of terminal side	-use of terminal side	-use of terminal side	
found within	-finding and using	-finding and using	-finding and using	-finding and using	
worksheets	quadrants	quadrants	quadrants	quadrants	
	Pg. 318 #1-9 odd, 11-14	Pg. 318 #25, 27, 29 – 44	-radian vs. degree mode	-radian vs. degree mode	
	all, 15-23 odd	all	Pg. 318 #45-50 all, 55, 65-	Pg. 318 #45-50 all, 55,	
			80 all	65-80 all day two	

Pre – Calculus	4.4 Trig functions of any	4.5 graph of sine and	4.5 quiz in class	Review for final	
Enrichment:	angle	cosine functions			
Bonus problems	-use of terminal side	-period			
found within chapter 4	-finding and using	-amplitude			
worksheets	quadrants	-shifts			
	-radian vs. degree mode	-comparisons			
	Pg. 318 #88-92 all	Pg. 328 #1-21 all			

Pre – Calculus	Final exam part 1	Final exam part 2		
Enrichment:				
Bonus problems				
found within				
chapter 4				
worksheets				