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

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

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

Rectangular coordinates, functions and their graphs	1.5 Analyzing graphs and functions -domain and range -function values Function tests -zeros Pg. 61 #1-24 all	1.5 Analyzing graphs and functions cont. -increase, decrease, constant Pg. 62 #31-48 all	1.5 Analyzing graphs and functions -determining positive intervals or range Pg. 63 #55-62 all	1.5 Analyzing graphs and functions -determine average rate of change through slope Pg. 63 #63-70 all	1.5 Analyzing graphs and functions -determine even and odd functions -determine elements of symmetry 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 with: transformations, combinations, inverse, mathematical modeling and variation	Section 1.8 worksheet 2 To be done independently during class	Section 1.8 worksheet 2 To be done independently during class	1.9 Inverse functions -solving functions -graphing applications Pg. 99 #1-23 odd	1.9 Inverse functions -determining if functions have inverses -horizontal line test -graphing applications Pg. 99 #25-53 odd	1.9 Inverse functions -determining if functions have inverses -horizontal line test -graphing applications Pg. 100 #55-67 odd	

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

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

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

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

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

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

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

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 odd, 76, 82	2.4 Complex numbers -definitions -addition and subtraction -multiply, conjugates -square roots Pg. 167 #57-63, 65-69 odd, 76, 82		

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

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

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

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

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

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

Pre – Calculus Enrichment: Bonus problems found within chapter 3 worksheets	3.4 exponential/logarithmic equations -strategies for solving equations step 1,2,3 Pg. 253 #1-7 all	3.4 exponential/logarithmic equations -strategies for solving equations step 1,2,3 -solve for variable using properties Pg. 253 #9-24 all	3.4 exponential/logarithmic equations -strategies for solving equations step 1,2,3 -solve for variable using properties -calculator applications Pg. 253 #25-46 all	3.4 exponential/logarithmic equations -strategies for solving equations step 1,2,3 -solve for variable using properties Pg. 253 #47-67 odd	3.4 exponential/logarithmic 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 Enrichment: Bonus problems found within chapter 3 worksheets	3.5 Exponential and logarithmic models -graphs of different models of growth and decay -financial model with equations Pg. 264 # 35, 37-40all, 51,52	3.5 Exponential and logarithmic models -graphs of different models of growth and decay -financial model with equations Pg. 264 # 35, 37-40all, 51,52	4.1 Radian and degree Measure -definitions, directions -co terminal angles -compliment/supplement Pg. 290 #1-45 odd	4.1 Radian and degree Measure -conversions -co terminal angles -compliment/supplement Pg. 290 #47-69 odd	4.1 Radian and degree Measure -definitions, directions -arc length -linear/angular speed -area of sector Pg. 292 #83-94 all

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	

Pre – Calculus Enrichment: Bonus problems found within chapter 3 worksheets	Applications of linear and angular velocity Worksheet in class with groups	Applications of linear and angular velocity Worksheet 2 in class with groups -apply different applications	4.1 Arc length, angular and Linear velocity worksheet Choose 9 of 1-12 all	Continue 4.1 Arc length, angular and Linear velocity worksheet Choose 9 of 1-12 all	Quiz Arc length, angular and Linear velocity worksheet Choose 9 of 1-12 all	

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

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

Pre – Calculus Enrichment: Bonus problems found within chapter 4 worksheets		4.4 Trig functions of any angle -use of terminal side -finding and using quadrants Pg. 318 #1-9 odd, 11-14 all, 15-23 odd	4.4 Trig functions of any angle -use of terminal side -finding and using quadrants Pg. 318 #25, 27, 29 – 44 all	4.4 Trig functions of any angle -use of terminal side -finding and using quadrants -radian vs. degree mode Pg. 318 #45-50 all, 55, 65-80 all	4.4 Trig functions of any angle -use of terminal side -finding and using quadrants -radian vs. degree mode Pg. 318 #45-50 all, 55, 65-80 all day two	

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

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