Math 20-1 - Unit 1 Quadratic Functions

)					
	DAY 1	DAY 2	DAY 3	DAY 4	
3.1 Quadratic Functions (Vertex Form)		3.1(CONT'D)	3.2		
		Quadratic Functions (Vertex Form)	Quadratic Functions (Standard Form)		
-	a ,p , & q values Max/Min Domain & Range	- Writing equations - # of solutions	InterceptsGraphical approachApplications		
-	Axis of Symmetry x and y intercepts			Quiz	
•	Assignment #1 Page 157	Assignment #2 Page 157	Assignment #3 Page 174		
	#1, 2, 4, 6, 7	#3, 5, 8 -12, 14, 16 (a ac), 21	#2, 3, 4, 6, 8 - 10, 12, 15		
	DAY 5	DAY 6	DAY 7	DAY8	
7	3.3	3.3		#";	
	Completing the Square	Word Problems - Maximum and	Review	**	
	Determining the vertexConverting between forms	Minimum application problems	Page 198 #2a, 4 (b ad), 5 b, 8, 12,	TIMU .	
			14 (a &d), 16, 17	TEST	
	Assignment #4	Assignment #5	Assignment #6	1001	
	Page 192	Page 194	Page 201		
	#1 - 5 (a s b), 6 - 8 (a s c), 9, 12 - 14	#16, 18, 19, 21, 23, 24, 30	#1 - 6, 7 (a & b), 8, 9 a, 10, 11, 13, 16		

Evaluation:



Homework – 10%

Quiz - 20% Test - 70%

Math 20-1 – Unit 2 Quadratic Equations

DAYT	DAY 2	DAY3	DAY 4
4.1	4.2	4.3	
Solving Quadratic Equations - Graphically	Factoring Quadratic Equations	Solving Quadratics by Completing the Square	
x - interceptszerosnumber of solutions	Review of factoring methods Using factoring to	Square roots Applications of completing the square	
	solve		Review
Assignment #1	Assignment #2	Assignment #3	
Page 215	Page 229	Page 240	1
#1 – 8, 11	#1 - 10 (a a c only)	#4 - 6 (a a c), 7 (a, c a e),	,
·	Page 231	10, 11	
	#11 – 15, 17, 20, 26, 30		· · · · · · · · · · · · · · · · · · ·
DAY5	DAY 6	DAY 7	DAY8
	4.4 Solving Quadratics using the Quadratic Formula	Review	
	. Use the formula	(In Class)	
	Discriminant	Page 258 #1 c , 5, 7 – 9 (a ₄ c), 11,	TIMU
Quiz		$14(c \cdot d), 15 a,$	armi
WUIL	- Simplifying the solution(s)	18 – 19 (á s c), 20	TEST
			1001
	Assignment #4	Assignment #5	
	Page 254	Page 261	
	#1 - 5 (a, c & e), 10, 12, 14	#1-10,12 - 14	

Evaluation:

Homework – 10% Quiz – 20%

Test - 70%



Math 20-1 – Unit 3 Systems of Equations & Inequalities

	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5
	8.1	8.2	8.2		-
	Solving Systems Graphically - Linear-Quadratic & Quadratic- Quadratic - Solving graphically	Solving Systems Algebraically - Linear-Linear & Linear-Quadratic - Solving by Substitution and Elimination - Number of solutions ~ one, none or ∞	Solving Systems Algebraically & Graphically Applications Extraneous Solutions	Review	Quiz
	Assignment #1	Assignment #2	Assignment #3	Assignment #4	ſ
	Page 435	Page 451	Page 436	Page 457	
	#2, 3, 4(a, c & d), 5(a, b & e), 6, 8, 13	#1, 3, 4, 5, 8, 9, 10	#7, 15, 20		
9	DAY 6	DAY 7	DAY8	DAY9	DAY 10
1	9.1	9.2	,	9.8	•
(Vinear Inequalities in Two Variables Graphing Test Points Solutions 	Quadratic Inequalities in One Variable - Graphing - Intervals - Solutions	Quiz	Quadratic Inequalities in Two Variables - Graphing - Intervals - Test Points - Word Problems	Review
	Assignment #5	Assignment #6		Assignment #7	Assignment #8
	Page 472	Page 484		Page 496	Page 459,
	#2(a & c), 3 - 5(b, c & d) 9, 11, 13	#4(a & c), 7 - 9(a & c), 12, 13, 15(a & b)		#1b, 3, 4(a & b), 6, 8, 9, 11, 13, 16	Page 501, Page 504

DAY 11 - Unit Test

Evaluation:

Math 20-1 – Unit 4 Radical Expressions & Equations

DAY 1	DAY 2	DAY 3	DAY 4
5.1	5.2	5.2 (continued)	
Working with Radical Expressions	Multiplying and Dividing Radical Expressions	Multiplying & Dividing Radical Expressions	
 Converting between Entire & Mixed Radicals Ordering Radicals Adding & Subtracting Simplifying Radicals Restrictions Problem Solving 	Monomials Binomials Rationalizing Monomial Denominators	Rationalizing Denominators Problem Solving Literal Coefficients	QUIZ
Assignment #1	Assignment #2	Assignment #3	
Page 278	Page 289	Page 289	
#1 - 10 , 14, 16, 18 - 20	#1 - 8, 12, 15, 19-21	#9 - 11, 13, 14, 17	
Worksheet A		Worksheet B	
DAY 5	DAY 6	DAY 7	DAY8
5.3 Solving Radical Equations One Radical Two Radicals Extraneous Roots Problem Solving	In class Unit Assignment	Review	UNIT
Assignment #4 Page 300	Assignment #5	Assignment #6	TEST
#1(b a d), 2 - 5, 6 - 9(a a c), 10, 12, 14 - 17	Page 304 #1(a - d), 2(c & d),3(b & c), 4a, 6 - 8, 10c, 11(a & c), 13(a, b & c), 14(a & c), 17, 19(a & e)	Page 306 #1 - 19	

Evaluation:

Homework - 10% Quiz - 20% Test - 70%

Math 20~1 – Unit 5 Rational Expressions & Equations

١.		,			
1	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5
-	6.1	6.2	6.2 cont.	6.3	6.3 cont.
	Rational Expressions - Non-permissible Values - Simplifying Rational Expressions	Multiplying Rational Expressions - Multiplying Rationals - Non-permissible Values	Dividing Rational Expressions - Dividing Rationals - Non-permissible Values	Adding & Subtracting Rational Expressions - With common monomial & binomials denominators - With monomial unlike	Adding & Subtracting Rational Expressions - With unlike denominators - Monomial, Binomial & Trinomial denominators
	Assignment #1 Page 317 #3 – 9, 13, 20, 25 Worksheet A	Assignment #2 Page 327 #1, 2, 5, 7	Assignment #3 Page 327 #3, 6, 8, 9, 14, 15 Worksheet B	Assignment #4 Page 336 #1, 2, 4 (a & b), 5	Assignment #5 Page 336 #3, 4 c, 6 – 9, 10a
	DAY 6	DAY 7	DAY8	DAY 9	DAY 10
	Review Worksheet C	6.4 Rational Equations - Solving Rational Equations Assignment #6 Page 348 #2 – 8	6.4 cont. Rational Equations - Problem Solving Assignment #7 Page 348 9-14, 17, 19, 25 a	Review	N.

Evaluation:

Quiz - 20% Test - 80%

Math 20-1 – Unit 6 Absolute Value and Reciprocal Functions

	varior arra re	, P	
DAY 1	DAY 2	DAY 3	DAY 4
7.1	7.2	-7.3	-
Absolute Value	Absolute Value Functions	Absolute Value Equations	
 Determine the absolute value of a number Compare and order absolute values Evaluate absolute value expressions 	Linear and Quadratic absolute value functions - Graphing an Absolute Value Function - Piecewise Notation - Invariant Point - Domain and Range	 Solving Graphically Solving Algebraically Types of Solutions Absolute Value of Quadratics 	QUIZ
Assignment #1 Page 363 1(a, c & e), 2, 3, 4, 5(a & c), 6(c, d & e), 7, 8, 11, 15, 16	Assignment #2 Page 375 1 - 5, 6(a, b & d), 7, 8(a, c & d), 9(a & b), 10(a & c), 11(a, b & d), 13, 16*challenge	Assignment #3 Page 389 1, 2(a & c), 4, 5(a - d),6, 11, 15, 22, 23	j
DAY 5	DAY 6	DAY 7	
 7.4 Reciprocal Functions Compare the graph of a Function and its Reciprocal Asymptotes Domain and Range Invariant Points Graph the Reciprocal of Linear and Quadratic Functions 	Raviaw (In Class) Page 413 #1 - 11a	TEST	
Assignment #4 Page 403 1, 2(a & c), 3, 4, 5(a, b & d), 6a, 7(a & d), 8a, 9, 10	Assignment #5 Page 410 Odds		

Evaluation:

Quiz - 25% Test - 75%

Math 20~1 – Unit 8 Sequences and Series

Γ	D. I. I.		DAY 3	DAY 4
L	DAY 1	DAY 2		
	1.1Arithmetic SequencesGeneral TermsCommon DifferenceNumber of terms	1.2 Arithmetic Series - Sum Formula (both) - Number of Terms	1.3 Geometric Sequences General Term Common Term Common Ratio	Quiz
	Assignment #1: Page 16 #1 – 6, 7 - 9, 11, 13, 16	Assignment #2: Page 27 #1 6(a & c), 7 - 13, 21, 23	Assignment #3: Page 39 #1, 3 - 5, 8, 9, 10, 12, 23	
-	DAY 5	DAY 6	DAY 7	DAY.8
1	1.4	1.5		
,	Geometric Series Determine Sum Determine t ₁ , r, n & S _n	Infinite Geometric Series - Sum of Infinite - Convergent & Divergent	Review	UNIT TEST
	Assignment #4 Page 53 #1 – 4, 6 – 8, 10 - 11, 13	Assignment #5 Page 63 #1 – 3, 5, 6 – 13, 15	Assignment #6: Page 66	

Evaluation:

Quiz - 20% Test - 80%

Math 20-1 – Unit 9 Trigonometry

DAY 1	DAY 2	DAY3	DAY 4
2.1 -	2.1/2.2	2.2	
Angles in Standard Position	Trig Ratios & The Cast Rule	Trig Ratios – Exact Values Special Triangles	
 Trig Review (10-C) Sketch an Angle in Standard Position Determine the Reference Angle Determine the Quadrant of an angle 	 Finding Trig Ratios where 0° ≤ x ≤ 360° Finding Quadrantal Angles CAST Rule 	 Solve an Angle and Give its exact sine, cosine and tangent value Finding Quadrantal Angles 	Quiz
Assignment #1: Page 83 #1 – 6(all), 7, 9, 10	Assignment #2: Cast Worksheet Page 96 #1, 3 - 8(a & c), 11a, 12, 16	Assignment #3: Page. 83 #8, 13 Page 96 #2, 3d, 9, 10, 18, 19, 21(a & b),	
DAY 5	DAY 6	25, 29 DAY 7	DAY8
2.3	2.4	DWT 1	DWIO
Sine Law/ Ambiguous Case/ # of Solutions	Cosine Law		
 Determine an unknown side and angle Describe and explain situations where a problem may have no solution, or one or two solutions Describe ambiguous case 	 Determine an unknown side Determine an unknown angle 	Review	UNIT
Assignment #4 Page 108 #2, 3(all), 4(b & d), 5(a & d), 6, 8, 9, 11, 12, 13, 17	Assignment #5 Page 119 #1 - 3(a & b), 4(a & d), 5(all), 7, 10, 15, 17, 19, 20	Assignment #7 Page 126	

Evaluation: Quiz - 20%

Test - 80%