MCR3U

Rich Summative Task

Five Overall Expectations

Five Meaningful Notes

What did you Learn?

Write a summary (1 page max/expectation) of each of the different overall expectations.

- important ideas
- important formulas
- some examples

- 1. Functions
- 2. Quadratics
- 3. Rational Expressions
- 4. Exponential Functions
- 5. Trigonometry and Sinusoidal Functions

ycle 1			+
T. I. C.	1	2.1	Adding and Subtracting Polynomials
Feb 5		2.2	Multiplying Polynomials
Feb 6	2	2.3	Factoring Polynomials
Feb 7			
Feb 10	3	1.1	CBR Relations and Functions
Feb 11	4	3.1	Properties of Quadratic Functions
Feb 12	5	1.3	Properties of Parent Functions
Feb 13	6	6.2	Investigating the Properties of Sinusoidal Functions
Feb 13		4.5	Properties of Exponential Functions
			The Note has been updated with Homework Solutions
10017	,	1.4	1 unction rotation
Feb 18	8	1.4	Domain and Range
Feb 19	9	5.1	Trig ratios of acute angles
Feb 20	10	5.6	Sine Law
		5.7	Cosine Law
	11	4.2	Working with Integer Exponents

Cycle 2

Day	Section	Lesson					
1		Factoring I					
		Diff. of squares, perfect sq, grouping					
2	2.3	Factoring Polynomials decomposition					
3	4.3	Working with Rational Exponents					
4	3.4	Operations with Radicals					
		simplify and add/subtract					
5	7.7	Pascal's Triangle					
6		Recursive Formula					
7	3.2	Determining Max/Min of Quadratic Functions					
8	3.2	Determining Max/Min of Quadratic Functions					
		Work Period for Assignment					
		Quiz #4 solution posted as the note					
	1 2 3 4 5 6 7	1 2 2.3 3 4.3 4.3 4 3.4 5 7.7 6 7.7 6 3.2					

Cycle 2B - OnLine

Mar 25	9	5.2	Trig ratios for special angles and the unit circle
Mar 27	10	5.2	Trig ratios for special angles and the unit circle
Mar 30	11		Vertical Transformations I
			(a, c)
Mar 31	12		Vertical Transformations II Function Notation (a,c)
April 1	13		Check Your Learning
April 2			Check Your Learning Hints
April 3			Check Your Learning Solutions Version 2 with corrections

Cycle 3 - OnLine	Cv	cle	3	_	O	nL	.ine
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Starting.		Section	<u> </u>
April 6	1	2.3	Factoring II
April 6	2	4.4	Simplifying Algebraic Expressions
April 6	3	3.4	Radicals – Multiplication/Division
April 13	4	3.5	Solving Quadratic Equations
April 13	5	3.6	Zeros of Quadratic Functions
Apr 20	6	5.3 / 5.4	Trig Ratios - All Angles
			- Related Acute Angle
Apr 20	7	5.3 / 5.4	Trig Ratios - All Angles
			- The CAST Rule
Apr 20	8	6.1	Periodic Behaviour
Apr 27	9	6.3	Interpreting Sinusoidal Functions
Apr 27	10		Horizontal Transformations (k,d)
Apr 27	11		Four Transformations using Points
			:
May 4	12		Transformations - Pull it Together

Cycle 4 - Online

			I
May 4	1	2.4	Simplifying Rational Functions
May 11	2	2.6	Multiplying and Dividing Rational Expressions
May 11	3	3.7	Families of Quadratic Functions
May 18	4	3.8	Linear Quadratic Systems
May 1 8	5	1.5	Inverse Functions
		3.3	
May 25	6	5.4	Trigonometric Ratios using Co-ordinates
May 25	7	6.6	Sinusoidal Equations from Graphs
	8		Adding and Subtracting Rational Expressions
	9		Graphs of Rational Functions

How did you do?

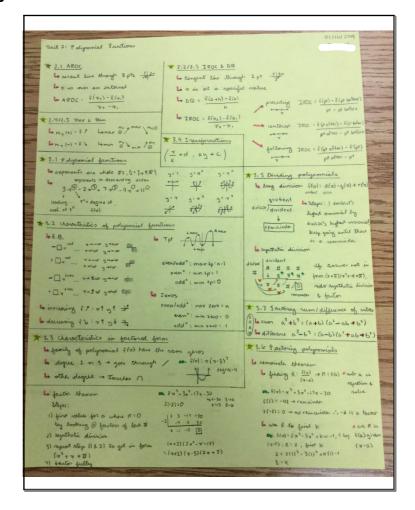
Review Check Your Learning Feedback

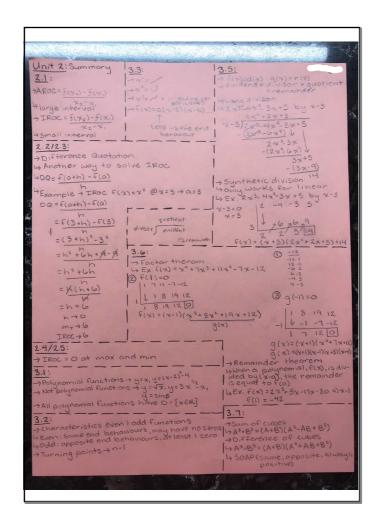
What will you need to review before MHF4U?

How did you do? Operations with polynomials Function Notation Properties of functions Domain and range Transformations Quadratics Identifying parts Finding equations Factoring Solving by factoring Solving by quadratic f. Complete the square Rational Expressions Simplifying rational f. +/- rational expressions \times / \div rational expressions Asymptotes and holes Exponential Rational Exponents Simplifying exponential exp. Check this out in section 4.7 Application

Trigonometry										
Similar triangles										
SohCahToa										
Sine law										
Cosine Law										
Identities										
3D	Ch	eck	this	out	in se	ctio	n 5.8	3		
Solving using Sinusoidal f.										
	-									
Discrete										
Pascal's triangle										
Arithmetic Sequence	<u> </u>									
Geometric Sequence	Tr	iis po	art v	vas c	mitt	ted i	n the	e onl	ine l	earnii
Series	_	•					_	1.0		
Applications of sequences	 check out chapter 7 and 8 in the 									
and series	-	4	الحدد	مامم	:£ .,		10 in:	tono	a+ad	
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Some examples from MHF4U





J - RST - Pull it Together - version 2.notebook	June 12, 2		