Unit 1 – Functions: Characteristics and Properties

Day	Date	Topic	Text Reference	Assigned Practice
1	Mon. Feb. 3	1.1 Functions	pg 11	pg. 11 #2,3,4,5,7-11,14,15
2	*Tues. Feb. 4*	*No School*		
3	Wed. Feb. 5	1.2 Absolute Value An Introduction to Interval Notation	(Explore) pg 16	pg. 16 #2, 3, 4*, 5, 7 **+ 2 online quizzes** *Correction:* 4c: The final answer should read "The absolute value of a number is always greater than or equal to 0. There is no solution to this inequality." *Correction:* 4d: The final answer should be the entire number line shaded in. Do you know why?
4	Thurs. Feb. 6	1.3 Properties of Graphs and Functions	(Invest. A-F) pg 23	pg. 23 #3*(*Correction:* The final answer should read: the function can be derived from any y=b^x, for any valid "b"), 4ad, 5*(question error), 7, 8, 10*(question error), 15
5	Fri. Feb. 7	1.4 Graphing Functions	(Invest.) pg 35	Worksheet
6	Mon. Feb. 10	Take-up homework (esp. 1.4 Transformations) and go over Interval Notation Vortex Activity REVIEW DAY 1		pg. 60 #1 to 8, 9bde *Correction:* #3 the range should be $\{y \in \Re \mid y \geq -1\}$
7	Tues. Feb. 11	1.5 Inverse Relations	pg 43	pg. 43 #1cd, 2d, 3, 4**, 6d, 10e, 12c, 13ab, 14, 16 ** first create a table of values for y=x^3, then graph it.
8	Wed. Feb. 12 [*Semi-Formal*]	1.6 Piecewise Functions (*Continuity Video on Website*)	pg 51	pg. 51 #1bdf, 2bdf, 3a, 4a, 5d, 7, 9 Challenge! #14, 15
9	Thurs. Feb. 13 [**Report Cards**]	REVIEW DAY 2	pg 60 Extra	pg. 60 # 10, 11a, 12, 13, 16, 17 + *Error:* #17a) the function should be: $f(x) = \begin{cases} 30, \text{if } 0 \leq x \leq 200 \\ 24 + 0.03x, \text{if } x > 200 \end{cases}$ Practice Test (30 mins max) *Errors:* #7a) should be (-2, 17) #9a) should be: $11500 b) $T(x) = \begin{cases} 0.05x & \text{if } 0 \leq x \leq 50000 \\ 0.12x - 3500 & \text{if } x > 50000 \end{cases}$ #10c) There should be a square bracket beside one of the zeros #10d) The range should be: $\{y \in \Re \mid 1 < y < 2, y \geq 3\}$
10	Fri. Feb. 14 (*Valentine's Day*)	Correct Review-Begin Next Unit 2.1 Determining Average Rates of Changes	pg 76	pp.76-78 #2, 6, 7, 10, 12, 13
	Mon. Feb. 17	☺ **Family Day** ☺		
11	Tues. Feb. 18	2.2 Part 1 Estimating Instantaneous Rates of Change from Tables of Values and Equations	pg 79 pg 85	pp.79-80 $A - G$ pp.85-88 #1, 2a, 3, 8, 14
12	Wed. Feb. 19	**UNIT 1 SUMMATIVE**		

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