Chapter 9 and 10 Self-Assessment

Emerging: I am starting to understand the ideasDeveloping: I am understanding many of the ideas but I make errorsProficient: I have a complete understanding of the skills and conceptsExtending: I am pushing my learning to connect to advanced problems and ideas

Section		Level of	Assignment
		comprehension	Completed
9.1	 Graph, analyze, and compare rational functions using transformations 		
	 Determine the behavior of graphs of functions near non- permissible values 		
	 Find asymptotes, intercepts, domain and range of rational functions 		
9.2	 Graph, analyze and compare rational functions from the equations 		
	 Determine whether graphs of rational functions have an asymptote or a point of discontinuity for a non-permissible value. 		
	• Rewrite the equation of a rational function into the form $y = \frac{a}{x-h} + k$		
10.1	 Sketch the graph of a function that is a sum or difference of two functions 		
	• Determine domain and range of a functions that is a sum or difference of two functions		
	• Write equations of a functions that is a sum or difference of two functions		
10.2	 Sketch the graph of a function that is a sum or difference of two functions 		
	 Determine domain and range of a functions that is a sum or difference of two functions 		
	 Write equations of a functions that is a sum or difference of two functions 		

Block: _____

10.3	Determine the value of composite functions	
	 Write the equation of a composite function and explain any restrictions 	
	 Sketch the graph of a composite function 	

Work Habits	G 100% to 80%	S 80% to 60%	N less than 60%	
	of the time	of the time	of the time	
Assignments completed and handed in on time				
Arrive to class on time				
Return after break on time				
Work on the math assignment during class				
Phone use limited to checking math answer keys posted on the				
website				
If absent:				
watching the lesson video or reading the lesson notes				

1. Explain how to rewrite a rational function in the form $y = \frac{a}{x-h} + k$

2. Explain how to find the vertical and horizontal asymptotes from $y = \frac{a}{x-h} + k$

3. How do you know if the non-permissible value of a rational function creates a vertical asymptote or a point of discontinuity?

4. Make your own composite function. (Where f(g(x)) is NOT a linear function)

$$f(x) = g(x) = f(g(x)) =$$

5. Graph your composite function (Use the grid that make sense for your function) Label your axis



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