Piecewise Functions Project Rubric

	20 points	15 points	10 points	5 points
Piecewise	All 4 functions	3 of 4 functions	2 of 4 functions	1 of 4 functions
Function	meet the given	meet the given	meet the given	meets the given
(times 2)	requirements*	requirements	requirements	requirements
Graph of your	All 4 'pieces' are	3 of the 4 'pieces'	2 of the 4 'pieces'	Less than 2 of the 4
function	accurate over the	are accurate over	are accurate over	'pieces' are
(times 2)	given intervals*	the given	the given intervals	accurate over the
		intervals		given intervals
Explanation	Explanation is	Explanation is	Explanation is	Explanations show
	thorough and	thorough but does	lacking details and or	minimal
	provides mastery	not meet mastery	student cannot	understanding of
	level details to	level details.	explain if or why	functions, intervals,
	include	Student realizes	there are errors in	and graphs
	understanding of	errors were made	the piece-wise	
	errors made	but cannot explain	graphs even when	
	during the	the details of why	pointed out.	
	project	to a mastery level		

*Given Requirements for your piecewise function and graph:

Use the following rules/intervals:

Function 1: (-∞, -5)

Function 2: [-5, 0)

Function 3: [0,5)

Function 4: $[5, \infty)$

If the function is undefined over a given interval then pick another function and include an explanation as to why the original function did not work. Make one of the functions linear, one of the functions square root, one of the functions absolute value, and the last function either exponential, quadratic or square root (one that you will be able to graph).