Expectations	Indicators	Essential Questions	Enduring Understandings
1.1 The student will represent	1.1.A2.10 represent piece-wise functions involving linear, absolute value, and step functions numerically, algebraically, and graphically.		8
functions and relations numerically, graphically, and	1.2.A2.1 describe functions using domain and range, one-to-one, increasing decreasing, continuous, maximum and minimum values, and symmetry.	Why are relations and functions represented in multiple ways? How are the	Relations and functions can be represented numerically, graphically, algebraically, and/or verbally. The properties of functions and
algebraically. 1.2 The student will describe and	1.2.A2.7 describe the properties of a piece-wise function involving linear, absolute value, and step functions.		
apply properties of functions and relations.	1.3.A2.1 describe the effect of transformations on the graph of $f(x)$, including $af(x), f(x-h)$, and $f(x)+k$.		
1.3 The student will perform a variety of	1.3.A2.4 perform operations on functions, including determining the composition of two functions.		
operations and geometrical transformations on	1.3.A2.5 determine the domain of the composition of two functions.	properties of functions and functional	functions and function operations are used to model and
functions and relations.	1.3.A2.6 determine whether two functions are inverses analytically and graphically.	operations useful?	analyze real-world applications and quantitative relationships.
1.4 The student will use numerical,	1.3.A2.7 determine the inverse of a function.	//	
algebraic, and graphical	1.3.A2.9 modify the domain of a function so that its inverse is a function.		
representations of functions and relations in order	1.4.A2.15 interpret and solve problems involving piece-wise functions including linear, absolute value, and step functions.		
to solve real world problems.			