Instructional Focus: Find limits and continuity

	4 – Mastery	3 – Proficient	2 - Basic	1 – Below Basic	0 – No Evidence
Find limits	Meets <u>all</u> of the	Find limits and one-sided limits	Find limits and one-sided limits	Find limits and one-sided limits	Little evidence of
	criteria in a Level 3	graphically, numerically, and	graphically and	graphically and numerically	reasoning or
		algebraically, using proper	numerically. Describe end		application to solve the
		notation. Describe end behavior	behavior (as x approaches ∞ or		problem
	Justify solutions and	(as x approaches or -) using limit	$-\infty$) using limit notation).		
	critique the	notation.			
	reasoning of others				Does not meet the
Determine continuity		Determine continuity of	Determine continuity of	Determine continuity of	criteria in a level 1
		functions graphically,	functions graphically and	functions graphically and	
		numerically, and algebraically	numerically <u>on its domain</u> using	numerically <u>at a given value</u>	
		on its domain using the three-	the three-part definition of	using the three-part definition of	
		part definition of continuous	continuous functions.	continuous functions.	
		functions.			
		Determine values for which a	Determine values for which a	Determine values for which a	
		function is discontinuous,	function is discontinuous, and	function is discontinuous.	
		understand the difference	understand the difference		
		between removable and	between removable and		
		nonremovable	nonremovable discontinuities.		
		discontinuities, and be able to			
		redefine functions to make			
		them continuous when			
		possible.		Determine whether a sure sided	
			Find finite and infinite one-sided	Determine whether a one-sided	
		Find finite and infinite one-sided	limits.	limit is finite or infinite.	
		limits, and describe asymptotes			
		using limit notation.			

Find limits and one-sided limits graphically, numerically, and algebraically, using proper notation. Describe end behavior (as x approaches or -) using limit notation.

Determine continuity of functions graphically, numerically, and algebraically on its domain using the three-part definition of continuous functions. Determine values for which a function is discontinuous, understand the difference between removable and nonremovable discontinuities, and be able to redefine functions to make them continuous when possible. Find finite and infinite one-sided limits, and describe asymptotes using limit notation.

Pre-Calculus - Limits