Mathematics 3208

Unit: Pre-Calculus

Relations and Functions	
Specific Outcomes It is expected that students will:	Achievement Indicators
RF1. Demonstrate an understanding of operations on, and compositions of, functions.	RF1.1 Sketch the graph of a function that is the sum, difference, product or quotient of two functions, given their graphs. RF1.2 Write a function $h(x)$ as the sum, difference, product or
	quotient of two or more functions quotient of $h(x)$ as the sum, difference, product of
	RF1.3 Determine the domain and range of a function that is the sum, difference, product or quotient of two functions.
	RF1.4 Determine the value of the composition of functions when evaluated at a point, including: • $f(f(a))$ • $f(g(a))$ • $g(f(a))$.
	 RF1.5 Determine the equation of the composite function given the equations of two functions f(x) and g(x): f(f(x)) f(g(x)) g(f(x)) and explain any restrictions.
	RF1.6 Sketch the graph of the composite function given the equations of two functions $f(x)$ and $g(x)$ and use the graph to determine the domain and range.
	RF1.7 Determine the original functions from a composition.