

By the end of the unit, it is expected that you will:	😊 EXCELLENT	😐 LOOK OVER	😞 WHAT??
<p>Understand the relationship between two variables by defining the following: Relations, Functions, One-to-One Functions</p> <p>Are able to use the Vertical line test and Horizontal Line test</p>			
<p>Be able to use the Sum, Difference, Product and Quotients of Functions to compute expressions</p> <p>QUESTIONS:</p> <p>Compute each expression given the functions f and g are defined as follows: $f(x) = 2x + 1$, $g(x) = x^2 - 2x + 1$</p> <p>a) $(f + g)(x)$ b) $(f - g)(x)$ c) $(fg)(x)$ d) $f/g(x)$</p>			
<p>Understand and perform the composition function $f \circ g$ Decompose a composite function.</p> <p>QUESTIONS:</p> <p>1. If $f(x) = 1 - x^2$, $g(x) = 2x + 3$, find</p> <p>a) $(f \circ g)(x)$ b) $(g \circ f)(x)$</p> <p>2. Find two functions $f(x)$ and $g(x)$ such that $h(x) = (f \circ g)(x)$</p> <p>a) $h(x) = (2x-3)^2$</p>			
<p>Understand how to apply the following TRANSFORMATIONS to the graphs of basic functions:</p> <ul style="list-style-type: none"> translations – vertical and horizontal shifts reflections of the graph about the x-axis and y-axis compressions and expansions of the graph 			

Workbook Stuff

Section and page number	Mandatory questions
2.1 p. 53	1, 2, 3
2.2 p. 57	1 odd, 2 odd, 3 odd, 4bc, 5,
2.3 p. 66	1 odd, 2 odd, 3 odd, 4 odd, 5 odd, 6a, 7a,d,g,k, 10a,d
2.4 Translations p. 79-82	1ace, 2abc, 9de, 10ade Worksheet #1 <small>solutions on-line..... basimath.weebly.com</small>
2.4 Reflections and Inverse p. 79-82	1bdfgh, 2defgh, 9abcf, 10bcf, 11, 12, 13 Worksheet #2 <small>solutions on-line..... basimath.weebly.com</small>
2.4 Expansions & Compressions p. 83-84	18abcd, 19 Worksheet #3 <small>solutions on-line..... basimath.weebly.com</small>
2.4 Reciprocal Functions p. 82-83	15, 16, 17
2.5 Inverse p. 90-93	1, 3a,c, 6a,c,e, 7, 9, 10
2.6 Combined Transformations p.97-99	2acegi, 3ace, 4, 5ab, 6ab, 7
Ch. Review p. 100-112	1-7, 10-12, 15-18, 22, 28, 29, 32, 34, 39-41, 44, 47-51, 53, 55, 57-59, 61, 64-67