

# Assignment #1-5

# Secondary 3 Honors

## Precalculus Book:

Pg. 58 – 61    3, 7, 9, 14, 19, 25, 31, 37, 40, 46, 61, 77, 84

## Review Problems:

1. Given the functions:  $f(x) = \sqrt{x-4}$      $g(x) = x^2 - 3$      $h(x) = 2x - 5$   
 find the following. Be sure to simplify where possible.
- a.  $(g \circ h)(x)$     b.  $(f \circ h)(6)$     c.  $f(x) + h(x)$
- d.  $g(2) - h(-1)$     e. Domain of  $f(x)$     f. Domain of  $(g \circ f)(x)$
2. Write an equation of a line passing through the points  $(-1, -3)$   $(4, 7)$ .
3. Graph the function  $f(x) = 3^{x-1}$  by filling in the table and plotting the points.

x	-2	-1	0	1	2	3	4
f(x)							

4. Multiply  $f(x) = x - 5$  and  $g(x) = 3x + 1$  to produce  $h(x)$ . Complete the table of values and then graph each function.

x	$f(x) = x - 5$	$g(x) = 3x + 1$	$h(x) = f(x) \cdot g(x)$
-3			
-2			
-1			
0			
1			
2			
3			

