Name:			Date:	
Learn	Learning Goal 1.1Understanding new ideas about fund previously knowledge.		ctions and applying that to	
Function				
1.	2.	3.	4.	
Domain		Range		

Example Find the domain of the following functions.

a.
$$f(x) = \frac{2x+3}{x^2-4}$$
 b. $g(x) = \frac{5x-1}{\sqrt{x^2+3x+2}}$ c. $h(x) = \sqrt{x} + \sqrt{4-x}$

Example If f(x) and g(x) are defined as follows, find the composition of functions.

$$f(x) = x^2 + 5$$
 $g(x) = \frac{1}{x}$

b. $(g \circ f)(x)$ c. $(f \circ f)(x)$ a. f(g(x))

Piece – Wise Functions

Example Sketch the functions. State the range.

a.
$$f(x) = \begin{cases} x, & x \le 0\\ \frac{1}{2}x + 2, & x > 0 \end{cases}$$

b.
$$g(x) = \begin{cases} 4-x, & x \le 1\\ x^2, & 1 < x \le 3\\ -6, & x > 3 \end{cases}$$

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