CH. 1, L3 – FUNCTIONS NOTATION

Interaction with New Material:

Ex. 1) Given the function $g(x) = \frac{x}{x^2-16}$, what is the value of g(-10).

Ex. 2) Given the function f(x) = -3x - 4, write an expression for f(a + 2)

CFS:

- 1. Highlight important information and circle the question/prompt.
- 2. Input and output are annotated
- 3. Substitution is completed for entire function
- 4. Function is evaluated vertically and correctly

5. Answer is boxed

Name: ___

_____ Period: _____ Date: _____

Partner Practice:

(Low Difficulty)

1. If g(x) = 3x - 5, evaluate:

a) g(4)	b) g(-2)	c) g(a)

2. If f(x) = -7x - 6, evaluate:

a) $f(a+1)$	b) $f(-4-a)$

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Integrated Math I

Name: ___

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(Medium Difficulty)

3. If f(x) = -2x - 3 and $g(x) = x^2 + 5x$, find each value

a. f(-1)	b. g(-3)	c. f(4y)
d. g(-2) + 2	e. <i>f</i> (<i>r</i> + 2)	f. 3[g(n)]

4. Give the function, $f(x) = x^2 + 5x - 24$

a Find f(0)	h Find f(-1)	c Find f(3)
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5. Given the function, $f(x) = \frac{x+3}{x-3}$

a. Find f(4)	b. Find f(6)	c. Find f(15)

6. If f(x) = x - 3 and $g(x) = x^2 + 2$

a. Find $f(0) + g(0)$	b. Find $f(1) \times g(2)$

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(Hard Difficulty)

7. Given the function $f(x) = \sqrt{x^2 + 2x + 4}$, find the exact value of the following:

a. f(2)	b. <i>f</i> (0)	c. <i>f</i> (-4)

- 8. A firm spends x dollars on product development and y dollars on advertising. Its profit is described by the following relationship $f(x, y) = 36,000 + 40x + 30y + \frac{xy}{100}$.
 - a. What is profit if the firm spends \$2,000 on product development and \$5,000 on advertising?



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b. What is profit if the firm spends \$10,000 on product development and \$8,000 on advertising?

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