

Name _____ Date _____ Pd _____

5.5 Operations with Functions DAY TWO CYU

Use when you get it right all by yourself

S Use when you did it all by yourself, but made a silly mistake

H Use when you could do it alone with a little help from teacher or peer

G Use when you completed the problem in a group

X Use when a question was attempted but wrong (get help)

N Use when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Adding Functions	5, 7		
Subtracting Functions	1, 6		
Evaluating Functions		1 - 8	
Domain of functions			1 - 8
Multiplying Functions	3, 4		
Dividing Functions	2, 8		

Perform the indicated operation. Then restrict the domain for each problem below in interval notation.

Finally evaluate for the given x value.

1. $g(x) = -x^2 - 1 - 2x$
 $f(x) = x + 5$
 $(g - f)(x)$ and when $x = 7$.

2. $f(x) = 3x - 1$
 $g(x) = x^2 - x$
 $\left(\frac{f}{g}\right)(x)$ and when $x = -3$.

3. $f(x) = 2x^3 - 5x^2$
 $g(x) = 2x - 1$
 $(f \cdot g)(x)$ and when $x = 0$.

4. $g(x) = 2x + 5$
 $f(x) = -x^2 + 5$
 Find $(g + f)(x)$ and when $x = -2$.

5. $f(x) = 4x - 3$
 $g(x) = x^3 + 2$
 Find $(f - g)(x)$ and when $x = 4$.

6. $h(x) = 3x + 3$
 $g(x) = -4x + 1$
 Find $(h + g)(x)$ and $(h + g)(10)$.

7. $g(n) = n^2 + 4 + 2n$
 $h(n) = -3n + 2$
 $(g \cdot h)(x)$ and $x = 1$

8. $g(x) = 3x + 2$
 $f(x) = 2x - 4$
 Find $\left(\frac{g}{f}\right)(x)$ and when $x = 3$.

CYU Reflection: How far can you go: basic, intermediate, or advanced?

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself

