

Name: _____

Hour:

Due:

Combining Functions – Day 2

1. $f(x) = x^2 + 4 + 2x$
 $g(x) = -3x + 2$
Find $(f + g)(2)$

5. $f(x) = 2x - 6$
 $g(x) = 4x + 5$
Find $f(3) - g(3)$

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

6. $f(x) = x^3 + 3$
 $g(x) = 4x - 3$
Find $(f + g)(-1)$

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

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

4. $f(x) = 3x + 3$
 $g(x) = -4x + 1$
Find $(f + g)(10)$

8. $f(x) = -3x - 3$
 $g(x) = x^2 + 5$
Find $(g - f)(2)$

9. Given $f(x) = 2x + 3$ and $g(x) = 2x^2 + 3x$:

a. Find $(f + g)(x)$

a. Find $(f - g)(x)$

b. Find $(f + g)(-3)$

b. Find $(f - g)(-3)$

c. Create a table of values using the given domain for $(f + g)(x)$

c. Create a table of values using the given domain for $(f - g)(x)$

X	Y
-1	
0	
1	
2	

X	Y
-1	
0	
1	
2	