Name: _____ Date: ____

Composite Function

Using f(x) = 5x + 4 and g(x) = x - 3, find

1. f(g(6)) 19

2. g(f(-7)) -34

3. f(f(8)) 224

4. g(f(x)) 5x+1

Using $f(x) = 8x^2$ and g(x) = 2x + 8 find:

5. $(f \circ g)(x)$ 32 $x^2 + 256x + 512$

6. $(f \circ g)(x)$ 32 $x^2 + 256x + 512$

7. Are these two answers the same? What does this information tell you about composition?

 $(f \circ g)(x)$ And $(f \circ g)(x)$ are two different composition and their values could be same.

The notation [x]means the greatest integer not exceeding the value of x. Given f(x) = [x], g(x) = 15x and h(x) = 8/x find:

8. (f° g) (6) 90

9. (f° h) (4) 2

10. (h ° f) (4) 2