

Name: _____

Date _____

Topic : Composition of Functions - Worksheet 1

Using $f(x) = 4x + 3$ and $g(x) = x - 2$, find:

1. $f(g(5))$

2. $g(f(-6))$

3. $f(f(7))$

4. $g(f(x))$

Using $f(x) = 6x^2$ and $g(x) = 14x + 4$ find:

5. $(f \circ g)(x)$

6. $(g \circ f)(x)$

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

The notation $[x]$ means the greatest integer not exceeding the value of x . Given

$f(x) = [x]$, $g(x) = 12x$ and $h(x) = 6/x$ find:

8. $(f \circ g)(5)$

9. $(f \circ h)(x)$

10. $(h \circ f)(3)$

