

MATH 114 - Reading Assignment 18 - Section 4.1 - Spring 2008

\_\_\_\_\_ 's my name, and \_\_\_\_\_ 's my game!

1.  $(f \circ g)(x) =$  \_\_\_\_\_

2. What is the domain of  $f \circ g$ ?

3. Follow Example 1. Let  $f(x) = 3x - 2$  and  $g(x) = x^2$ . Find  $(f \circ g)(1)$  and  $(g \circ f)(1)$ .

4. Follow Example 2. Let  $f(x) = 3x - 2$  and  $g(x) = x^2$ . Find  $(f \circ g)(x)$  and  $(g \circ f)(x)$ .

5. **True or False:** Composition functions have absolutely no applications to calculus. Therefore, they are completely pointless to study.