

**17.3 – Composite Functions**

1. Let  $f(x) = 2x - 2$  and  $g(x) = x$ .

a.  $(f \circ g)(x) =$

b.  $(g \circ f)(x) =$

2. Let  $f(x) = 3x$  and  $g(x) = 2x + 4$ .

a.  $(f \circ g)(x) =$

b.  $(g \circ f)(x) =$

3. Let  $f(x) = 3x + 4$  and  $g(x) = 5x$ .

a.  $(f \circ g)(x) =$

b.  $(g \circ f)(x) =$

4. Let  $f(x) = 2x^2$  and  $g(x) = x + 4$ .

a.  $(f \circ g)(x) =$

b.  $(g \circ f)(x) =$

5. Let  $f(x) = 4x - 5$  and  $g(x) = 6x$ .

a.  $(f \circ g)(x) =$

b.  $(g \circ f)(x) =$

6. Let  $f(x) = x^2 + 4$  and  $g(x) = 4x$ .

a.  $(f \circ g)(x) =$

b.  $(g \circ f)(x) =$

7. Let  $f(x) = x^2 + 5$  and  $g(x) = 2x$ .

a.  $(f \circ g)(x) =$

b.  $(g \circ f)(x) =$

8. Let  $f(x) = x^2$  and  $g(x) = 4x + 5$ .

a.  $(f \circ g)(x) =$

b.  $(g \circ f)(x) =$