

## 7-3 Composition of Functions

Name: \_\_\_\_\_

Time> Start: \_\_\_\_\_ Finish: \_\_\_\_\_ Total Time = \_\_\_\_\_

Let  $f(x) = 2x + 3$

$g(x) = x - 10$

$h(x) = 3x - 1$

$k(x) = x^2$

\_\_\_\_\_ 1. Find  $f(g(x))$

\_\_\_\_\_ 2. Find  $g(f(x))$

\_\_\_\_\_ 3. Find  $f(h(x))$

\_\_\_\_\_ 4. Find  $f(f(x))$

\_\_\_\_\_ 5. Find  $f(k(x))$

\_\_\_\_\_ 6. Find  $g(h(x))$

\_\_\_\_\_ 7. Find  $h(g(x))$

\_\_\_\_\_ 8. Find  $k(k(x))$

\_\_\_\_\_ 9. Find  $k(g(x))$

\_\_\_\_\_ 10. Find  $g(h(f(x)))$

\_\_\_\_\_ 11. Find  $f(h(g(x)))$