[composite functions]

1. If $f(x) = 2x - 3$ and $g(x) = x^2 + 1$, find:

   a. $f(g(1))$
   b. $g(f(0))$
   c. $(f \circ g)(x)$
   d. $(g \circ f)(x)$

2.

   a. If $f(x) = 2x + 7$ and $g(x) = 2x^2$, find $g \circ f$
   b. If $f(x) = 3x - 10$ and $h(x) = 6x^2 + 9x + 2$, then find $g(x)$ such that $f \circ g = h$