3. (16 points) The graphs of two functions, \( f \) and \( g \) are given in the figure below.

Use the graphs to estimate or answer each of the following.

(a) \( f(g(2)) \) ____________
(b) \( 3g(-4) \) ____________

c) \( g(f(2)) \) ____________
(d) \( g(2) \cdot f(6) \) ____________

(e) If \( h(x) = f(x - 1) \), how is the graph of \( h \) related to the graph of \( f \)?

(f) If \( j(x) = g(-x) \), how is the graph of \( j \) related to the graph of \( g \)?

(g) The sign of \( f'(-4) \) is ____________

(h) The sign of \( f''(-4) \) is ____________