Do not use any unapproved aids while taking this assessment. Read each question
carefully and be sure to show all work in the space provided.

1. Demonstrate and explain how to find the derivative of the following functions. Be sure to
explicitly denote which derivative rules (scalar multiple, sum/difference, etc.) you are using
in your work. (Note that we use the notation $\log(x) = \ln(x) = \log_e(x)$.)

(a)
$$h(y) = \sqrt[3]{y^4} + \frac{7}{y^4}$$

(b)
$$g(x) = -4\cos(x) - \log(x)$$

(c)
$$f(t) = -4\,t^4 + 9\,t^2 + 8\,t + 4$$