

Pencils and Erasers Only – No Calculators Needed.

1 Compute the derivatives of the following. Simplify them.

(a) $f(x) = \frac{2}{x^3} + \ln(x)$

(b) $g(x) = 4x^3 \ln(x)$

(c) $h(x) = \frac{1 - e^x}{1 + e^x}$