MEMORIAL UNIVERSITY OF NEWFOUNDLAND DEPARTMENT OF MATHEMATICS AND STATISTICS

Section 3.2

Math 1000 Worksheet

Fall 2024

For practice only. Not to be submitted.

1. Differentiate each of the following.

(a)
$$y = \sqrt{4e^x + 2}$$

(b) $y = \sin(x^2 - 7x)$
(c) $f(x) = e^{5^x}$
(d) $y = \cos(\cos(x))$
(e) $f(x) = (5 - 2x)^{-4}e^{\sec(x)}$
(f) $f(t) = \tan(t^2e^t)$
(g) $y = \frac{x^2}{(x^3 - x)^6}$
(h) $h(x) = \sin(\cos(\tan(x)))$