MEMORIAL UNIVERSITY OF NEWFOUNDLAND

DEPARTMENT OF MATHEMATICS AND STATISTICS

Section 4.2

Math 1000 Worksheet

 $Fall\ 2024$

For practice only. Not to be submitted.

- 1. In each problem, find the intervals on which f(x) is increasing, decreasing, concave upward and concave downward. Identify any relative extrema and points of inflection.
 - (a) $f(x) = 3x^4 8x^3 + 6x^2$
 - (b) $f(x) = \ln(1+x^2)$