MEMORIAL UNIVERSITY OF NEWFOUNDLAND DEPARTMENT OF MATHEMATICS AND STATISTICS

Section 2.5	Math 2000 Worksheet	WINTER 2020

For practice only. Not to be submitted.

- 1. Identify all relative extrema and saddle points of the following functions.
 - (a) $f(x,y) = x^2 + y^2 xy 3y$
 - (b) $f(x,y) = x^3 6y^2 + 6xy 6x$
 - (c) $f(x,y) = x^6 + y^6 6xy + 7$
 - (d) $f(x,y) = x^3y^2 18x^2 27y^2$