



SNS COLLEGE OF ENGINEERING
Kurumbapalayam (Po), Coimbatore – 641 107



AN AUTONOMOUS INSTITUTION

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A' Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Topic: 3.8 – TUTORIAL 8

1. Test for maxima minima for the function $f(x, y) = x^3 + y^3 - 12x - 3y + 20$.
2. Find the maximum minimum values of $x^2 - xy + y^2 - 2x + y$.
3. Test for an extremum of the function $f(x, y) = x^4 + y^4 - 2x^2 + 4xy - 2y^2$
4. Test for maxima minima of the function $f(x, y) = x^3 y^2 (6 - x - y)$.