

King Fahd University of Petroleum and Minerals Department of Mathematics and
Statistics
Math-201 Semester-163 QUIZ IV

NAME: S.No. ID:
Maximum Marks: 10 Section:07 Time Allowed: 30 minutes

- (1) Find and sketch the domain of $f(x, y) = \ln(xy + x - y - 1)$.
- (2) Find the limit, if it exists $\lim_{(x,y) \rightarrow (1,-1)} \frac{x^3 + y^3}{x + y}$.
- (3) If $w = x \sin(x^2y)$, find $\frac{\partial^2 w}{\partial x \partial y}$.