

King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math 201 Quiz 3
First Semester 2009–2010(091)

Name: _____

ID #: _____

Sec#: _____

Let $f(x, y) = 2x^2 - 4x + y^2 - 2y + 1$ and D be the closed triangular region bounded by $x = 0$, $y = 2$, $y = 2x$ in the first quadrant.

- (a) Sketch the region D .
- (b) Find the absolute maximum value of f only.