

KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS  
DEPARTMENT OF MATHEMATICS & STATISTICS  
MATH 201-02  
Quiz # 4  
Apr 17, 2013

NAME:

ID#:

**SHOW ALL YOUR WORK**

1. **(10 points)** Find the critical points of the function  $f(x, y) = 8x^3 - 12xy + y^3$  and classify them as local maxima, local minima or saddle points.