KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
DEPARTMENT OF MATHEMATICS & STATISTICS
MATH 201-09
Quiz #3
Nov 06, 2014

NAME:	ID#:

SHOW ALL YOUR WORK

1. **(4points)** Find parametirc equations for the line that passes through the point (1,0,1) and is perpindicular to the plane $2x+3y+4z=5$. At what point does the line intersect the plane?

2. **(3points)** Identify and sketch the graph of the surface $x^2 - y^2 + 6y + 10z + z^2 = 30$.

3. **(3points)** Sketch the domain of the function $f(x, y) = \ln(x^2 - 4) + \ln(y^2 - 9)$.