# ING FAHD UNIVERSITY OF PETROLEUM AND MINERALS DEPARTMENT OF MATHEMATICAL SCIENCES <br> MATH 201-06 <br> Quiz \# 3 <br> April 07, 2008 

NAME: ID\#:

## SHOW ALL YOUR WORK

1. (a) (3points) Find symmetric equations for the line of intersection of the two planes $\Pi_{1}: x-2 y+z=8$ and $\Pi_{2}: 2 x+y+z=8$
(b) (2points) Find the angle between the two planes $\Pi_{1}$ and $\Pi_{2}$ of Part a.
(c) (2points) Identify and sketch the surface $x-y^{2}-z^{2}=1$.
2. (3points) Identify the surface whose equation is given by $z=r^{2}$..
