## ING FAHD UNIVERSITY OF PETROLEUM AND MINERALS DEPARTMENT OF MATHEMATICAL SCIENCES

MATH 201-06 Quiz # 3

Quiz # 3 April 07, 2008

NAME:	ID#:

## SHOW ALL YOUR WORK

- 1. (a) (3points) Find symmetric equations for the line of intersection of the two planes  $\Pi_1: x-2y+z=8$  and  $\Pi_2: 2x+y+z=8$ 
  - (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  $z = r^2$ ..