Q.2) 
$$Z = \chi_{y_1} + \chi_0 y_2 + \chi_0 y_3$$

unit horm vector  $Y = [y_1, y_2, y_3]$ 
 $Y = [\sin d \cos \beta, \sin d \sin \beta, \cos d]$ 
 $Z = \chi_1 \sin d \cos \beta + \chi_2 \sin d \sin \beta + \chi_3 \cos d$ 
 $= \chi_2 \cos d + (\chi_1 \cos \beta + \chi_2 \sin \beta) \sin d$ 
 $= \int_{0}^{\infty} \int_{0}^{\infty}$ 

