ALM-7 (Statement Opinion Summary)

CO-4

1. Compute the directional derivative of $f = x^2yz + 4xz^2 + (x+z)$ at (1, -2, -1) in the direction $2\bar{i} - \bar{j} - 2\bar{k}$.
2. Calculate the angle between the normals to the surfaces $2xz = y^2 - 1,\ \ 3x^2y = 2 - z$ at the points (1,1,1).