NAME: (print!) AAYUSHI KASERA Section:

E-MAIL SCANNED .pdf OF COMPLETED QUIZ to DrZcalc3@gmail.com (Attachment: q24FirstLast.pdf) ASAP BUT NO LATER THAN Dec. 4, 2020, 8:00pm

By using Stokes' Theorem, or otherwise, evaluate $\int_C \mathbf{F} \cdot d\mathbf{r}$, where

$$F(x, y, z) = (yz + 2y + 3z)\mathbf{i} + (xz + 2x + 4z)\mathbf{j} + (xy + 3x + 4y)\mathbf{k} ,$$

where C is the curve of intersection of the plane x+y+z=1 and the cylinder $x^2+y^2=1$, oriented counterclockwise as viewed from above. Be sure to explain everything.

$$Z = 1 - n - y$$

 $g(n,y) = 1 - n - y$
 $g(n,y) = -1$
 $g(n,y) = -1$

Surlio D : Ans = 0