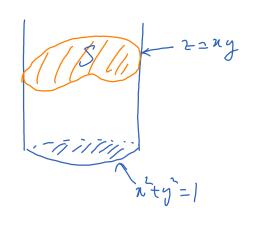
Example of finding surface area

Tuesday, April 6, 2021

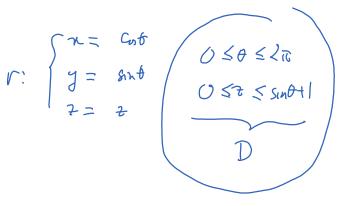


$$\begin{array}{ll}
r & \begin{cases}
x = x \\
y = y
\end{cases} & \text{unit disc} \\
r & \begin{cases}
x, y, xy
\end{cases}
\end{array}$$

$$Area = \begin{cases} \langle l_1 o_1 g \rangle, & \forall g = \langle o_1 l_1 n \rangle \\ \langle -g_1 - n_1 \rangle \end{cases}$$

$$Area = \begin{cases} \int \sqrt{n^2 + y^2 + 1} dA = \int \sqrt{r^2 + 1} r dt dr = \cdots \\ 0 d \end{cases}$$

$$\Gamma: \begin{cases} \chi = Cost \\ \gamma = sint \\ \gamma = z \end{cases}$$



cut by the planes z=ytl and ==0

Are =
$$\iint |r_{\phi} \times r_{\epsilon}| dA = \iint |\langle -smb, cnb, o \rangle \times \langle o, o, | \rangle | dA = area(D)$$

- smb con to 0

Sint Lat
$$0$$

$$= \int_{0}^{2\pi} \int_{0}^{S(h\theta t)} dz d\theta = \cdots$$

