Direigna Thm
E-simple solid region with S= piecewise smooth boundary (Surface).
Phus continuous P.d. on an open region containing E.
SSF.ds = SSS dw FdV
Flux of F
though S.
(1) P(x,y,2) = 3xî+ xyî+ 2x2ê
E 13 cake bounded by x=0, x=1, y=0, y=1, 2=0, Z=1
oriented out.
6 s, des
6 s, dus
Can You apply du Thin? 5
Yao! == PC+03+86
Px Zauthen "ot"? V
let's Setitup!
$div\vec{F} = \frac{\partial}{\partial r}(3x) + \frac{\partial}{\partial \gamma}(xy) + \frac{\partial}{\partial z}(2xz)$
$=3+x+\lambda_r=3+3x$
E: 05x5( , 05x51 ) de251









