· We wish to show that in Contesion coordinates there is if  $f = \partial \times \partial + \partial y \int + \partial y \int$ Start with of in Cartesian coordinates hi=1

TP = (2x t + 2y f + 23 ft) \$ so this checks Next check div (F)

don(=) = I 280 Fi = D. =

Furelly unl(=) = I Eight Top Top Fr

- Dx =