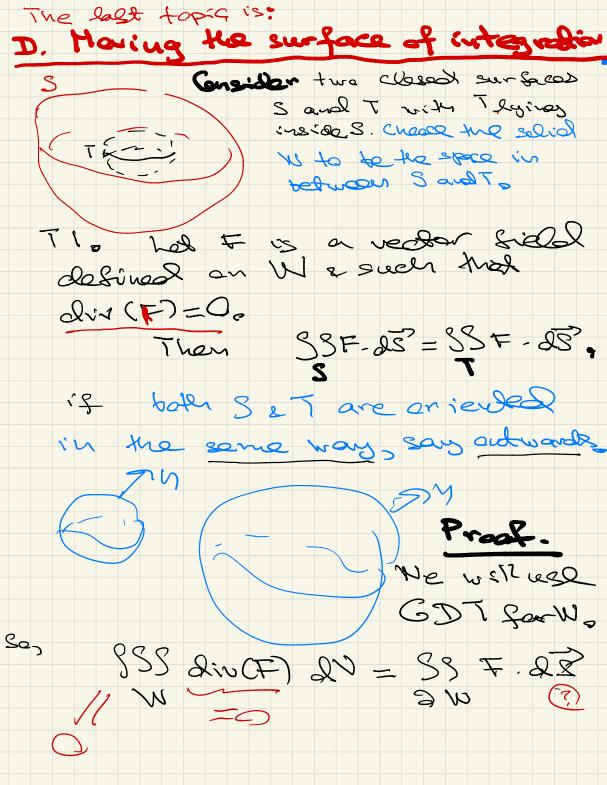
8.4 Part 2

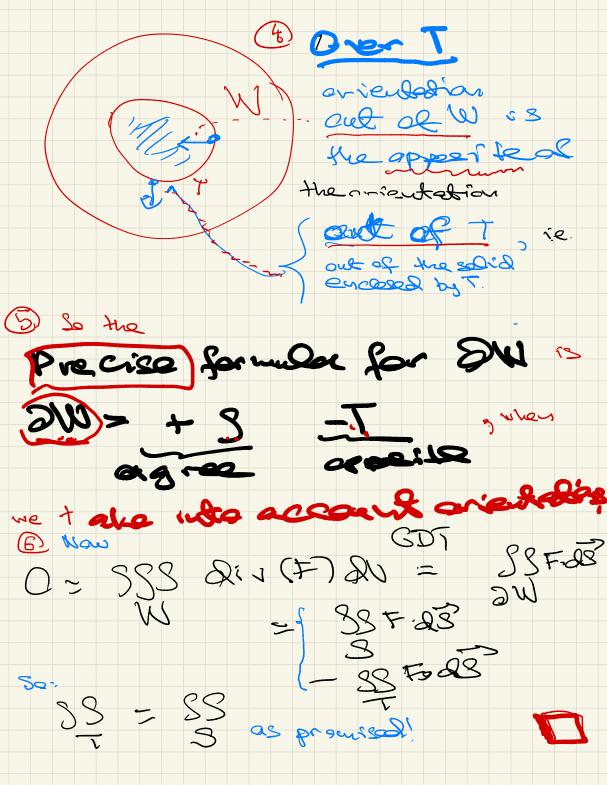
_____/

Last time: Gauss Divergance 533 dis (F) al = JS = . N- inside ... IN bould where: W is a solid in TR3 . The is aniented autwards F is a vector field This Ganes Sincrance theorem · is a calcidational tool charge which side is easier? I it explains the meaning of me For a vector sided $F = \langle F_{g} Q, R \rangle$ we have defined divergence by a formulas div F = V.F = Px tostRz. However if our vector field F has a physical meaning, we have that div (F) does too! Eq. F is the relacity reder fields for a flaw of some great ity ?. . Of 15 we do not understand the meaning of divergence from the formular we can try to understand it using the Gauss Divergene. Theorem.

Conclassory (lost time) The value of the sunction div(F) at a point p is the role of creation (accumbdion) of the guart ty a at the point P Final project problem Explain the Conclesion, Guidance - serves of geoeticity (Sources, notes - book - review : lage weele Heat your Acr goon pressure pheater created P Spras air Senser at y accumentato



We read to understand The barendary DNU OG S the barendary DNU OG We It consists of two piecos SoundT. However, when we take into accurd accurd accurd outside crientations we get DM = Swith plus and Twith minus: (Thoursdary of W) has arientation from W and it points and of M Sty is is the crievalia in GDI (2) We will Compare with or iendetions el which were chosen as "get of St and "art of T's SAL arrientation out of W Intention out of S 3 On 3 Because at a point p on 3, out of W = out of space enclosed by S_



Conclusion: For surface integrals SS Fids one cars more the surfaces provided that div(F)=0 bet ween sursacos !!! R. This will be used in Final Project Problem? Explain Gauss Lares (P5D)