First topic So today: Normal cones
Check out Folton's appendix B A,(X)=CHb(X)
Motorational discossion;
Gren V, W => X closed subscreetes
monet to defre [N]. In ? (M) = [NUM]
mont to aline [v]. [w] (CH) = [VNW] (N Nice cimstures want [v]. [w] = [VNW] e.g. transver intractor.
Not too had even it intractor is it transmise, it we can soon unw subere-theoretically. we can soon unw subere-theoretically.
e.g. $A^2 = S_{\mu\nu} + (x_{i}y)$ $V : 2(x_{i}) = P_{i} = 2(x_{i}y)$
[h].[m] = [nvm] = [bt]
[1].[w] = [0]
N=5(x-x3) M=5(x)
set therefore $\gamma = 0$ $y - x^2 = 0$ [pt) $\chi^2 = 0$
K=O

VNW = substance out and by the com & ideal shows alu talw Joseph of Schrist 5(1-x2,1) = 5(1/x2) leigth 2 schere => Fulton says 12 (4/x2)] = 2(5(4/x2)] = 2(5(4/x2)] Victory? No. what about if I has may divension?! w= z(x) 1= z(x)

Transusal = undered for now

Let motoratural

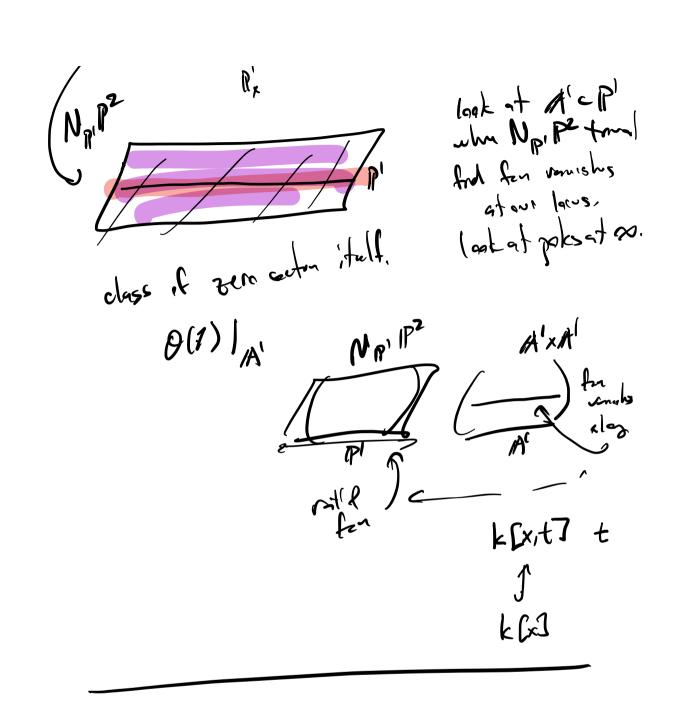
R/I & R/3 as expected

South y to do enth to?

Mormal come strategy: 1. replace intraction to one of from (Cwow) or (zero) Inclored CVX Det Gren VCX defre CVX = Specox of 2 1/2/21 Novemal cove of Vinx Campare vous de latred abouts BlyX = Projox of all Exeptual dust of bloom, BlyX/v = Prijo ~ " L"/L"*1

facts If all is law out by my ter source, flew the Ox alyohan O all/2000 as (actually and) i.e. locally in U this looks like Av N=rank alv/200 am U. = codim of V in X in this special case, we write NX = CVX LV/12 = conversal bundle (Hartcherre)
Como W c CVX P' P2 trusure CVX = NVX

PZ Lards X, Y, Z P' x=0 12 x=0 gove theretiz n = set thanks n all hopping in affe hamber (x,y) C Phylip Py CP Px Spec (Sym O(-1)) = N P2 Q: What do me need to $C_o/A' = \Theta^{x^n/x^{n+1}}$ ensure that dry CvX = dim X > con Parted liver solm thretie or Paril = P'x Cphill Ph = Spec api/o & Go. = Spac 001 CPhpIP = PI



Pat 2: Intro to Clus a closses. Read: vieve dified e, (L) [lacely free of 1] ______ operations on CH C, (L): CH, -> CH, -1 [1] ->[1] greaty Carterdio incluse Llu g= 6,067 8 high rank cover of chices 62 c. E er E - - - . dhe flise so that, if we conside br & = |+ (26+628 +2) flen ls 2=2,0 =2 ر (افی) = در افی رد افی) and exth = 1+C(L) 1.6 1= () La lue brode habras ac O.

$$c_1 \mathcal{E}_1 + c_1 \mathcal{E}_2 = c_1(\mathcal{E}_1 + \mathcal{E}_2)$$
 $(1 + c_1 \mathcal{E}_1 + c_2 \mathcal{E}_2 -)(1 + c_1 \mathcal{E}_2 + c_2 \mathcal{E}_2 + -)$
 $= 1 + (c_1 \mathcal{E}_1 + c_2 \mathcal{E}_2) + ...$