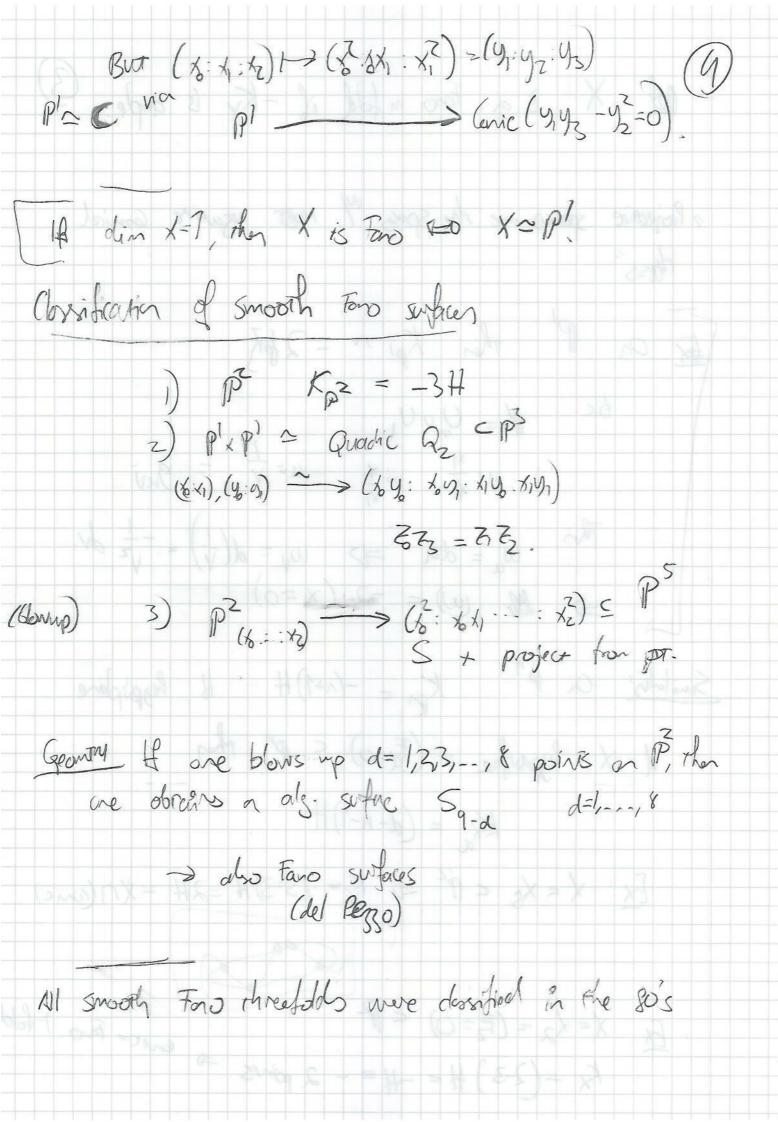


Get dinser K. (independent of dipor) Divisor U= ample =? By ded X as manfold of X= {(4) | F_= - = F_1 = 0} Bus not imigue! If he sere dirise $D= \geq n_i S_i$ on $X \ni enbeddy X \leq P^N$ then D = very ample of Karpe 1 (d = P2 ds C73 but not very ample. P3 (6... 12) -> (67 6x: -: x2) m.x #11 = m.x EX X= PXp1 U= PX {P+} not ample

ld X Ba Faro m told if - Kx is ample. (3) 1) Projective spaces are the space of most regarive annial \neq on P' then $K_{p'} \sim -2pT_{p}$ b.c. $p' = U_0 U_1$ $u = \frac{x_1}{6}$ $v = \frac{x_1}{x_1}$ $u = V = g_{uv}$ $w_{u} = du \implies w_{v} = d(\frac{1}{v}) = -\frac{1}{v^{2}} dv.$ $w_{v} = du \implies (x_{o} = 0)$ Similarly a PM. Kpn = -(n+1) H H hyporplane HX = hyposuface = (Fa=0) E pr, then $Kx_a = (d-n-1)H$ Ex X = Xs < P2 = 0 = (5-3) H = 2H = Xn(conic) $K_{\chi} = (2-3)H = -H = -2$ points = enr = fero 1-fold EX X=X2=(E=0) < P



clessical Foro led X = PN and - Kx = H/x is a period For 3-fold Such How XNH, NHz = amid are

(= Gg-2 < pg-1

gc = 2g-2

(a'l div. anx ~mH me I), suror pape The complete dossification actuality rases like P P, o Amos rive 17 rypes:

clossical Faro 3-Gds. (-Kx=rH) =

r inergs a dessification of the 17 Form 3 folds X W tx = " 11, Hample. and cry dioss of XB multiple of # 570 Govern of dinx=n, ad -Kx = (n+1)H then x=p? If -tx = nH, than X is quadric az c pn+1. Thefre of din x=3, -1/2=14 $1) r=4 \times = \mathbb{P}^3$ Foro stree quedic Relicionsly easy: [r=T] Kx = -2H. The XnH=S

(Acce one
$$P^2$$
, P^1 , P^1 , P^2 , P^2 , P^2) P^2
 $\Rightarrow \exists x_1, \dots, x_5$
 $X_3 \subseteq P^4$ which harefold

 $X_4 = x_2 \subseteq P^5$ in 2 quoties

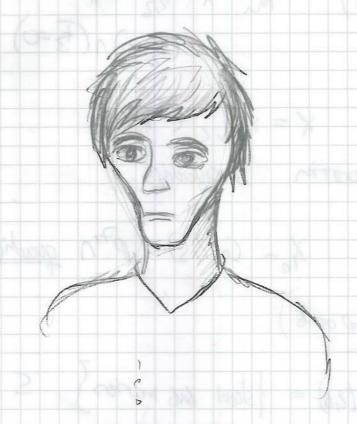
 $X_2 \xrightarrow{T} P^3$ banched or a quotie

(a) $X_1 = (F_1 = 0) \subseteq P(1, 1, 1, 1, 1, 2)$
 $X_1 = (F_2 = 0) \subseteq P(1, 1, 1, 1, 2, 3)$
 $X_2 = x_3 = x_4$
 $X_3 = x_4 = x_5$
 $X_4 = (F_4 = 0) \subseteq P(1, 1, 1, 1, 2, 3)$
 $X_5 = x_5 = x_5$
 $X_6 = x_5 = x_5$
 $X_7 = x_7 = x_7$
 $X_8 = x_8 = x_8 = x_8$
 $X_8 = x_8 = x_8 = x_8$
 $X_8 = x_8 = x_8$
 X

dt (g=3), then X = X4 CP quartic $d_{S}x=8$ (9-5) $x=x_{e,e,z}$ $\subset \mathbb{P}^6$ in agrica 3 quadrics. de x=10 (9=6) Xe= G(2,5) 1 P7 1 quadric XI4 d=14(=0 g= 8) G(2,6) = { Seew 6x6 maries} S PM & dunt G(26) 1 pg = Xy / gcin of G(2,6) 3979 Found used double projection. Recall of index 1=2 (1x=-216), than I /2 1=1=5 (. For which or, is there a Form 3-fold W &= X2g-Z a he LCX CP9-1 wing scoretry



(noe tourn...)



something about winding.

le said it was from Wiliplia

univariand FD Pn ---> X
gen. finite

X mined if de f = 1

din 1 hirorh not = univertienal

din 2 Castelnoon -11 (my had 2 port)

din 3 contertroughes (Arin, Manfol gostnets)

universal my Tor Hz (X,71) \$0)
and Max & B Myariate.