Forst liter on hat-teori deier seg om lings, shjema, osv
Gor du macemarielle lege not, vil du komme our
Vi har son derde allerede from un?!
Gothardieck-konsonlijen/ gropehandemettering
Glennon finha u: Ab -> Mon obeyp konn. monoide
Her en verste adjunger +: Men -> Ab. Så gitt en kommutaan menorele M ~> M 1 mer se velle abelle snow on kan lengrous for M
1 mes generale abable suppor son kan kansnaves fra M"
my egislapa M -> M + V , '7! gr. honorwifi G7 L Sa M er bessent op til ateydig isomofi.
isomofi.

Med art ord Horn (Mt, G) = Horn (M, uG) Vi lon largure Mt slik: If len horsene MT slik: $M^{\dagger} = M \times M_{(m,n)} \sim (m,n')$ $M^{\dagger} = M \times M_{(m,n)} \sim (m,n')$ $M^{\dagger} = M \times M_{(m,n)} \sim (m,n')$ fines $k \in M$ slik or m + n' + k = m' + n + k. Els $\cdot N^{\dagger} = (2,1)$ · (Nu ()) + = toviell! n+2=00 Hersiden større, men grupen minoke? (Eilenberz- Swindle) • R ring. $f_0(R) = Rroj_{f_0}(R)$ end. Gen proj. Feb fire K-modulos.

On X et parahampeto, Heurshift tepologish rom. Ind se på reelle og harplete vehroburger om X. VBR(X) & VBC(X) Kommuterte moraider under Whitrey -sum av velterburger.

Supprehomplettering for Map. KO(X) og KU(X) (0 for wasond os U for united) o, Tillalo vil Helles" (???) an F kapp ~ SBil(F), symme inteprodution (VB), Vord. din F- returnon ag 3: VOV -> F on ille-degreer symmemsh bilineser form → hommwariv moroide under €. ~ Grothendieck - Wier - grappen (Firs) GW(#)= to(5Bil)(5 (V,B) ->V Har or glemsum finlar SB:1(F) -> Project) 10 E. GW(F) -> KF = Z Joby Milios-trae Kjørner = , furlamentoulidealer vil GW(7). 7 graduse Relacion oil

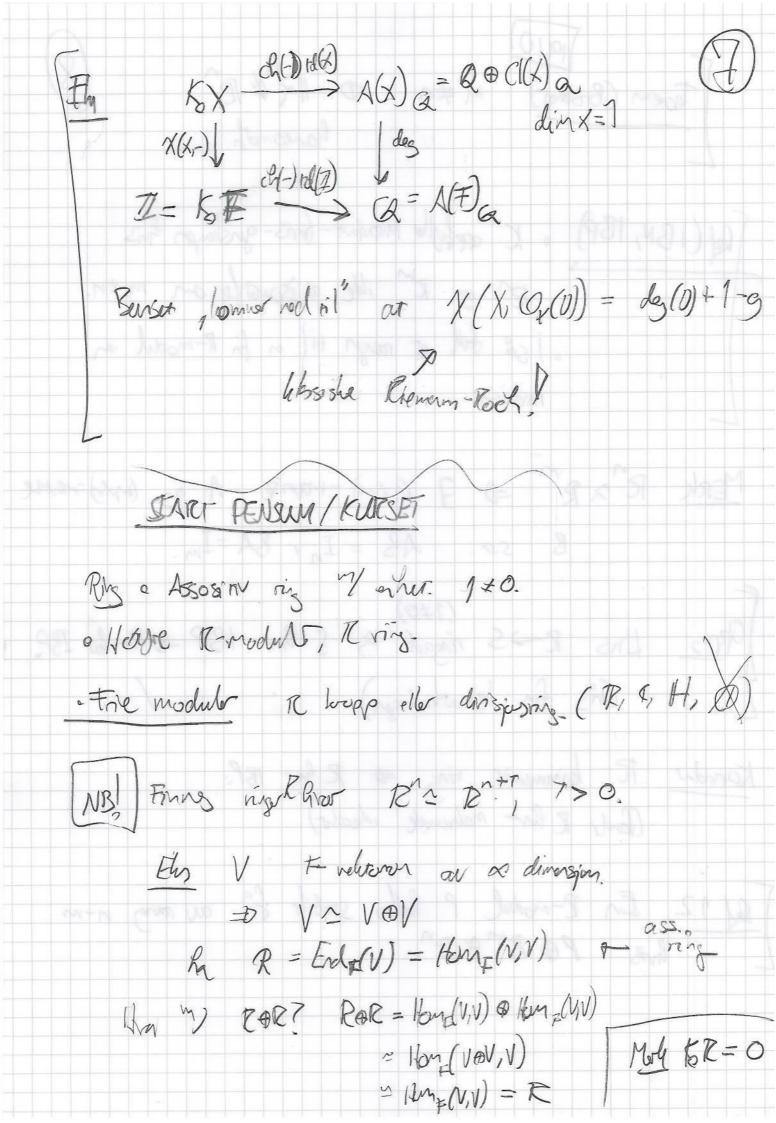
1 Milnor-formatingre 1970 /62 (WA) -> H/F,

\mathcal{A}	
Firms of a house algebrash K-resi" (etter Guiller).	
Fino to R, K, R, tz R,, K, R,	
Honotopignpor al et K-Tection av R, (Quillers, t-honstrubgian)	
Ebsenplis of heltallying C_F til on rall kropp? $K_0 C_F = I \oplus C(F) + ideally segmen.$ $K_1 C_F = C_F^{\times} = I^{\Gamma+C-1} \oplus \mu(F)$	
C = # reelle enbeddings C = # arrull por ow C = enbeddings	
$1807 K_2 I = \frac{7}{2} \qquad \text{ for } K_2 I = \frac{7}{2} \qquad \text{ for } K_3 = \frac{7}{2} \qquad \text{ for } K_4 I = \frac{7}{2} \qquad \text{ for } K_5 = $	
= StB & To ED kradursh Biposizer Gard	
Her my trop? Quiller endlysque abothe graper	

is

(frendly F= tallerpp) (5) Toolm on Book n=0 rang $K_n O_F = \begin{cases} r+(-1) \\ r+c \end{cases}$ n=1 (Orrichler) n=21 >0 n = 4i + 1n=41-1 Rodelind 3-finley out $3_{F}(s) = \sum_{I < O_{F}} N(I)$ $I \neq O$ $I \neq O$ Her or Fuls-prodular: $S_{F}(s) = \left[\left(1 - N(rp)^{-s} \right)^{-1} \right]$. Thus a analytish Ensettely til a newnorf funknjar my a nhe Therefore C_{1} C_{2} C_{3} C_{4} C_{5} C_{6} C_{7} $C_$ F/Q also

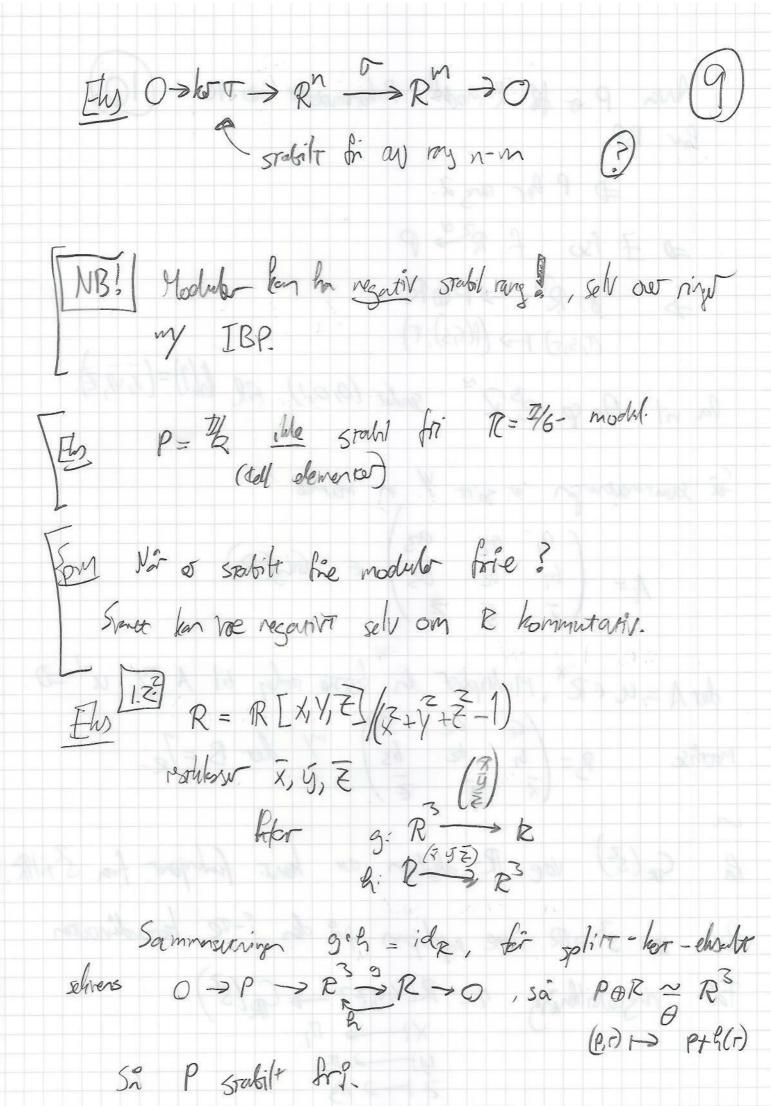
Eho F= @ n=r=1 \$ 1/2 3(-1) = -1.20 #KEZ #KZ A 7/48 VELIGENT Lee - Secumba Grochslich-Riemann-Roch X => Y paper out molan state quaiprophine abilding our Sec (F) Algebraish vergion and Singular to homologi. , Ever knows with & f" rd(x) = Tedl-blason til Sã on $\mathcal{F} \in \mathcal{G}h(X)$, $f_1 = \sum_{n > 0} (-1) R^n f_n$ så 20 f.F = H(X,F)

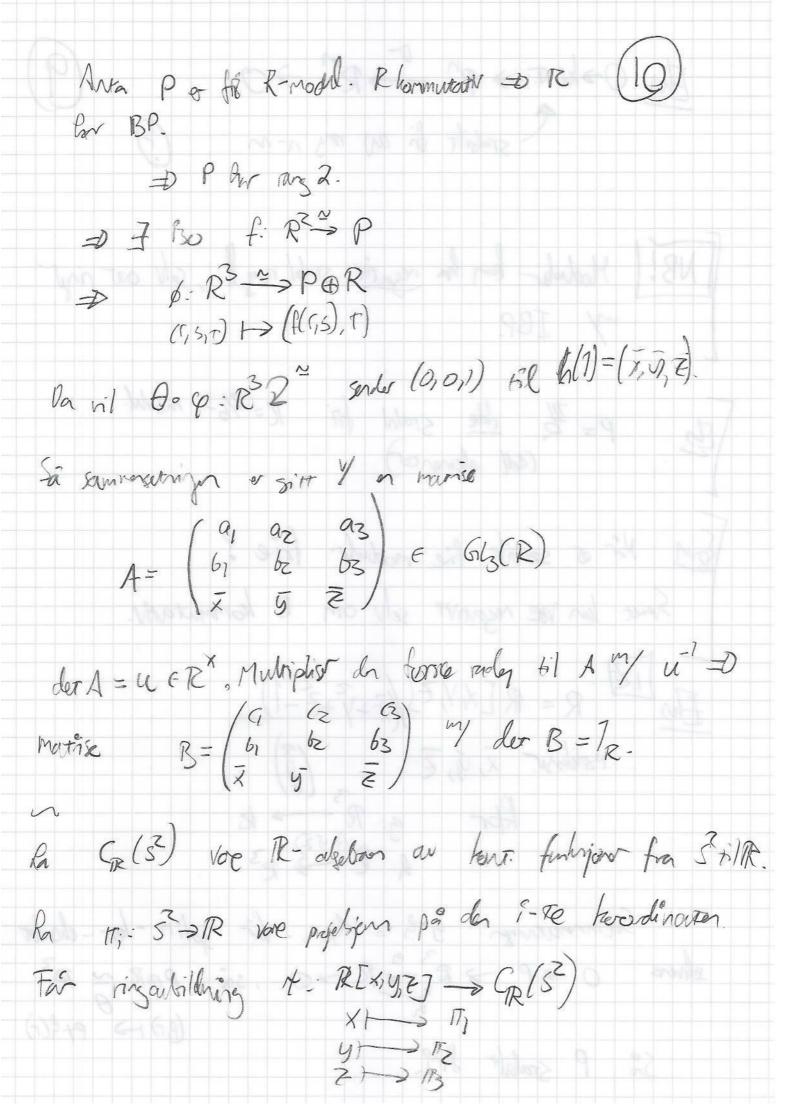


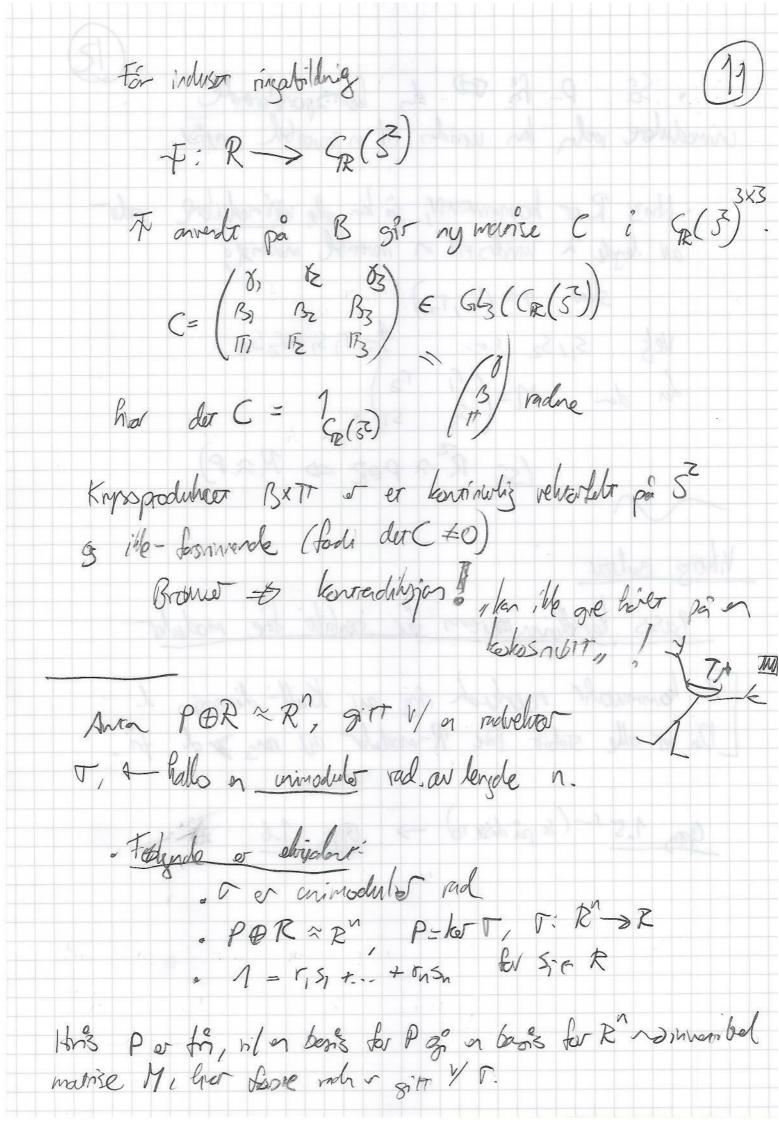
Teven (Brosnot) m ≠n = 1R ≠ R horronoti Rel (IBN, IBP) . R applyller mission-bons-gustagen fins 120 g Rm ille er isonofe om m ±n. . I sa fall or raight it on fin 17-model on Invenan. MERK Rar & 3 (1xm) - manse A of mixed make B so. AB = In, BA = Im. (1±0)
(1±0)

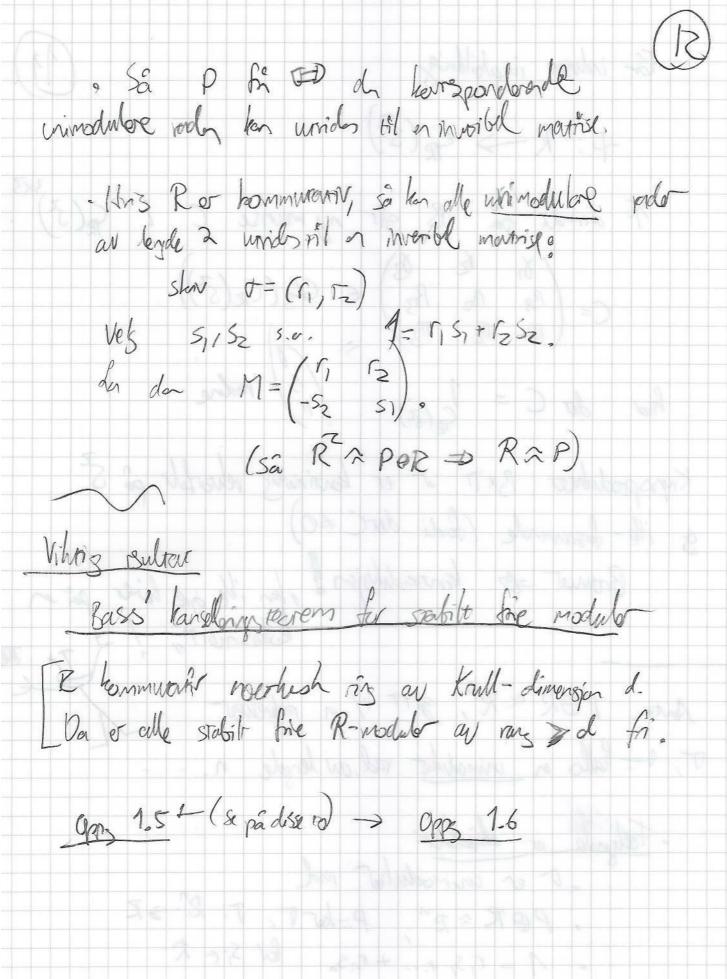
Uns R-25 nigato & Shr 1BP DR hu BP. (n's for benertinger) Karrder TC kommuner virg => Rhor 1BP.

(Fod: Rhor maksingle ideals) [By 1.2 En R-model P hallos stability for away n-m









"n' kan jo holde på litt til - 82 Projektive moduler Ehr B C Dz er proj. Ho-modulo. · Elmala (Projeliar loftingsegnshapan) $\frac{P}{J \wedge J} \times \frac{1}{M} \rightarrow 0$ date selves Han (P, -) elsate furbrer) Christer a Elemphe alle frie module P(R) = kategorin av ordelignerere projetire It modulo Dette er en addinv havegeri . Fordi hom-mengeline or abelle grupper. endelige hopoduke g'r / O

