G: MANAGE, FINIM =) TITULE () MINITINO EQE = EX Z K KXJ (f) [E:K] (F) S EX--- XE Z DE [EIK] : FO (E: K) (E:K) ([E:K] F&L [FLIE] = [FIE][LIE] = dim FOL dimp FL (fil) FI E-BILLNEDL tribe TWA F: F&L --> FL EPHECTIVA 1 FOLEFL

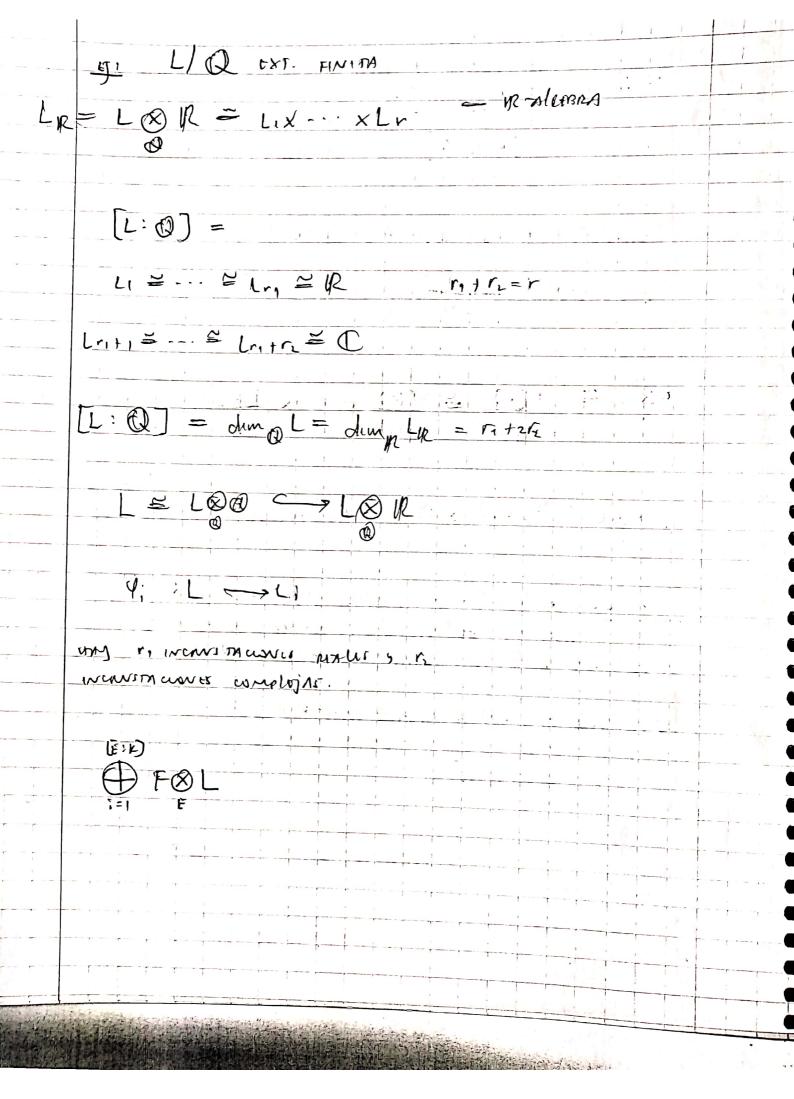
$$F \otimes L \cong F(x) \cong F(x) \times \cdots \times F(x)$$

(f₁)

(f₂)

ET BY MAN TOOM EXTENSION SEPARAGE LIK.

[NO 18 NETESTA MINEMA HIPOTULE SOONE F)



$$B \leq \underline{\otimes(k)} \leq \underline{\otimes(k)}$$

$$(x^{r-1}) = \underline{\otimes(k)}$$

$$\frac{\omega(x)}{(x-1)} \times \frac{\omega(x)}{(\pm 1/6)}$$

AND GENTHALAUNTE

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$K[G] = $ $\sum \angle g g \angle g \in K $ Alaton nt ampo	+ +	-
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(=1,0) (=10) = M.	1 7/4 /	-
$\left(\sum_{g \in G} \chi_g g\right) \left(\sum_{g \in G} \beta_g g\right) = \sum_{g \in G} \chi_g g$ $g \in G$	6	
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	K.	
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Seg SBAh = 5 mg ph gh seg sheg		0
$\int (1+\alpha)(1+\alpha) = 1+\alpha + \alpha + \alpha$		0
(1+y)(1+2h) = 1+y+2h+2gh		0_
		<u>a</u> _
e) a nothino	1	0
	h	0
$q = \prod_{i=1}^{m} \mathbb{Z}/(n_i)$		
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		CA.

$$K[Z/n] = \frac{K[X]}{(x^{n}-0)}$$

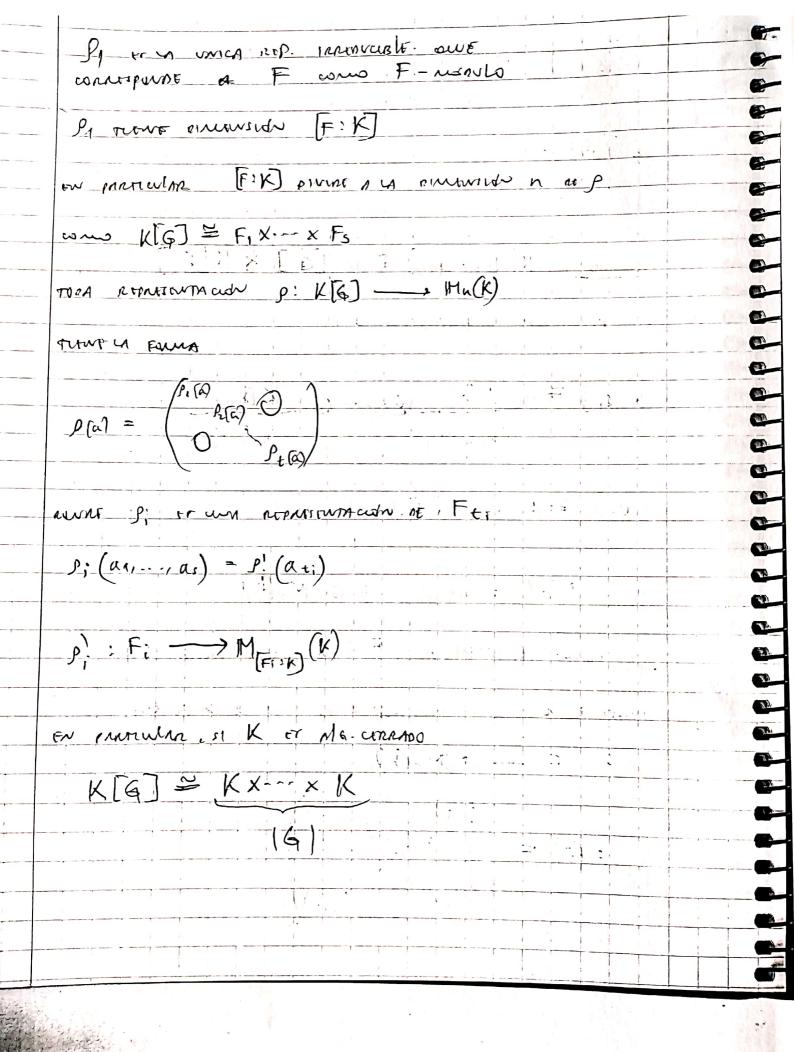
$$Z/(n;) = 21, \times, X^{2}, ..., X^{n-1}, X^{n}$$

31 K THEWE CAMPENITION O

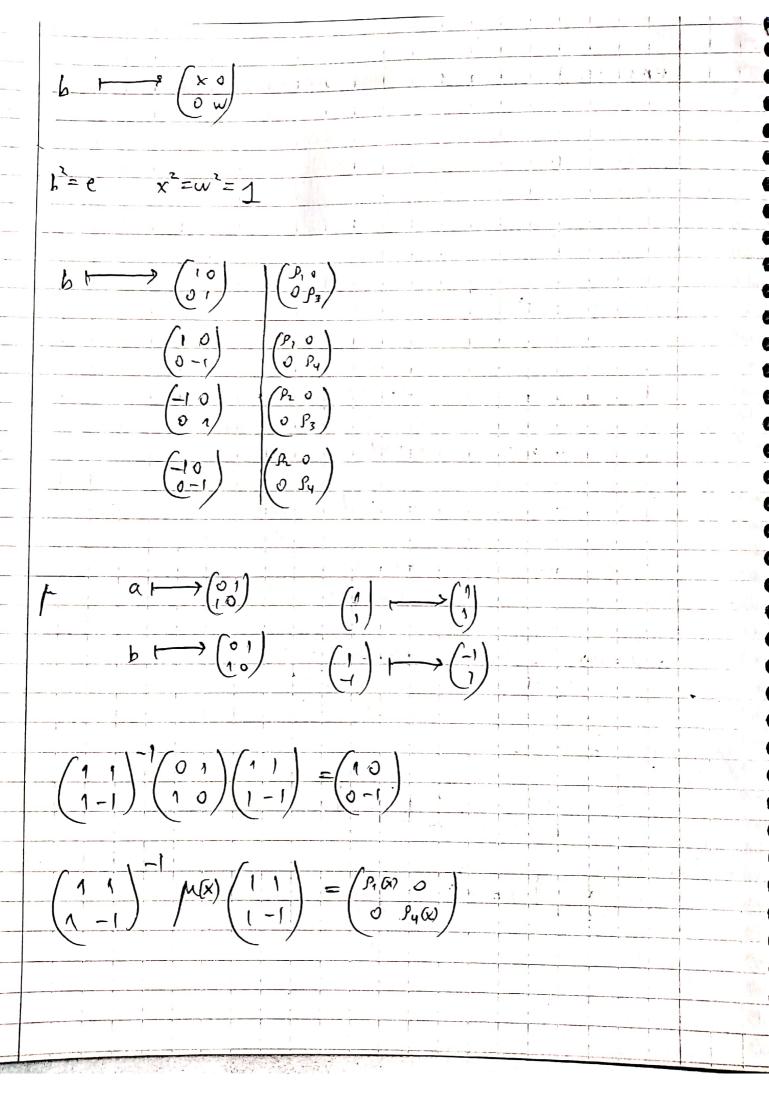
$$K[G] = K[X] \otimes - - \otimes K[X].$$

$$(x^n-1) = (x^n-1)$$

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BEE: I PHOLEN OF UN ALGEON OF dim FINITA FAMIL K'ED R= {a EA | a M=0 . HM invovable}. FILL REFUN WELL BILLTERO NE A DEFS A SI PICK SIMISIMPLE II R= 20} A ST DICE SIMPLE SI NO TIENTE LOEALES BINITEROS NO TRIVIALES HECHO! UN AGERRA 12MI-SIMPLE ET UN PRODUCTO OF AGERRAS SIMPLES HECHO 2: UN ALGEBRA SIMPLE A ET RE UN FORMA A = IMC(D) ewas D EIN MARARA 12 OIVISION. HECHOS: SI K TIENT CIMETINISTICA O, ENTONCES KES) to semisimple K[G] = M, (D)x -- x M, (Dr) on entreular of K & 16. corpaso K[6] = Mu, (K) X --- X Mur [K) 19 = E n?