Z-odnoct (Kom. i)p. c 1 des jen. no 0 ~ U) Zo = { (a, 6) | a, b = 24, b + 0} ~: (a,6) ~ (c,1) = ad = 6c TC. ~ e PE D-60 1/ pctn. V 21 cumsy. 3) Monson. (a, b) ~ (c, 1), (c, 1)~(e, f) =) ad = be ~ cf = le adcf=bcde $\frac{1+1}{6}$ $\frac{1+1}{$

$$Q = \frac{2}{6} / = \frac{1}{6} [(a, b)] ((a, b) \in \frac{2}{6})$$

$$E(a, b)] = \frac{1}{6} ((a, b)] ((a, b)) \sim ((a, d)]$$

$$Depurer viep. B Q$$

$$E(a, b)] + [(a, d)] := [(ad + bc, bd)]$$

$$E(a, b)] \cdot [(a, d)] := [(ac, bd)]$$

$$TB \cdot (Q, t, \cdot) = trone$$

$$D \cdot (A, t, \cdot) = trone$$

(8-60 00 17000 - ([a, b]] +[c, 8]] + [c, 8]] = [(ad+bc, bd)] + [c, 6]]. = [(ad+bc)f+bde, bdf]] [(a, 5]] + ([c, 8]]+[c, 8]] = [(a(bf)+b(cf+le), b(df)]]

$$0 = [(0,1)] = \{(0,b) \mid b \in 2, b \neq 0\}$$

$$(-[(a,b)]) = [(-a,b)] \quad [(a,b)] - [(c,d)] = [(ad-bc,bd)]$$

$$1 = [(1,1)] = \{(a,a) \mid a \in 2, a \neq 0\}$$

$$[(a,b)] \neq 0 \iff a \neq 0$$

$$[(a,b)] \stackrel{!}{=} [(b,a)]$$

$$Q_{o} = \left\{ \left[(\alpha, 1) \right] \middle| \alpha \in \mathcal{Z} \right\} \subseteq Q$$

$$= Q_{o} = \pi \text{organization for } Q$$

$$= \frac{2}{2} Q_{o}$$

9: 2 -> Q. $\alpha \mapsto [(\alpha,1)]$ P(0/+466) = [(0+6,1)] = P(0+6) 9(a) 9(b) = [(ab, 1)] = 9(ab) f- mores. a coperis, D: 7 - 1 Q ; HZEZ D(21= 4/2) Ф- XMM; Kerф: 109; Im ф= Qo 2 се впого в Q. ... 5.0.0. спологи, се

2 e crogny resen ma Q

$$[(a,5)] = [(a,1)][(b,1)]^{-1} = ab^{-1}$$

$$Q = \{ab^{-1} \mid a,b \in Z\}$$

Xopontepuetures na vone. Upour somer F - iron N Oop, char $F = |1|_{(F,H)} = |0|$ Xaperei epicone 11(= N 11/= 0 $|1| = k \rightarrow k.1 = |\tau - + 1| = 0$ min c poer de-to

The 11 char Q = char R = char C = 0 2) char 2p = p (p- 040 cso) a \in F, $n \in \mathbb{Z}$ an. a = (n,1)a yre home. GF3ud. a = (m,1)(n,1)76. John F +0 =1 Char F - Moeso Eneno Te. / n. a = 0 (=) a = 0 um n = 0 3a chor F=03a char F=P 2/ n.d = 0 (=) a = 0 um p/n Off. F. Mocro none, anco women and aterm Togarones T-l. 7 F

The Borco Tone una opocoo Togatone Des F-me : K= MP - Toyable our F--- Moero PCF Te. Quelp co sport oronero D-C 1/ F < Q; 16F => INGF => UCF => Q GF => F=Q 2) F < Up; (Kp; +) = Cp; (4,+) = < 1> TEF = FEF = F = Zp Te. F- Tone: P- MOCTO My Troy Trong 11 char F=0 => P = Q 21 char F=P => P = 4p

Band, Ke organie und 100 Le min. Morry. beng K 325. charF=0 => [F]= 00 $\frac{3.5}{20} |F| < 9 = 2) 3p-0p. : 2p < F; dem F = n$ $= 2) (F|=p^n; 34-h: F = {2}ih: 1 i: E4/2$ 5-0.0, 4=1 $(F1=p^2-0.0)$ 3--3L: $F=\{a+b|o,b\in 2p\}$ (1ub-5vme)Jp.q: 2=p+19 -> f(x1=0 rmf=x-4x-p) Hom. 30 1/2 f=x2+x+1; L2=L+1

$$\frac{7}{5} = \frac{6}{3} \quad \text{2)} \quad \text{ad} = 50 \quad \text{e} \quad (\text{ad}) \cdot 1 = (60) \cdot 1 = 1$$

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$$= 1 \quad (\text{a.1}) \cdot (\text{d.1}) = (6.1) \cdot (0.1) \quad \frac{(\text{d.1})^{-1}}{2} = (6.1) \cdot (6.1)^{-1}$$

$$= 1 \quad (\text{a.1}) \cdot (6.1)^{-1} = (6.1) \cdot (6.1)^{-1}$$

$$= 1 \quad (\text{a.1}) \cdot (6.1)^{-1} = (6.1) \cdot (6.1)^{-1}$$

$$= 1 \quad (\text{a.1}) \cdot (6.1)^{-1} = (6.1) \cdot (6.1)^{-1}$$

$$\frac{P(\frac{1}{6} + \frac{C}{4}) = P(\frac{1}{64 + 6C}) = [(64 + 6C). 1] [(64). 1]^{-1} = }{[(6.1)(6.1)] + (6.1)(C.1)] (6.1)^{-1} = } = [(6.1)(6.1)^{-1} + (6.1)(6.1)^{-1}] = P(\frac{1}{6}) + P(\frac{C}{4}) + P(\frac{C}{4})$$

2/ Char F = P 7: Up - F K (- > 1<.1 KC4 -> kopenstroe : k = l => p/k-l => k.1= l.1 1 (K-10 = P(K+0) = (K+1), 1 = K.1+1.1 e-XMM 4(ke)= ---= 4(k/4(e) (K.1=0 =) P(K=0) Ken e = } 0 9 =1 Im 9 - good dagaon Lat In e = Up =4

G.
$$F$$
 - Opver F = $F = Q$ ($Chor F = 0$) $F = Q$ ($Chor F = P$)

Honoroon no egua sporrembo $K = K \text{ comprises of } g \text{ comprises of } g \text{ for } f \text{ for$

t, of EKIN h=f+g; HIEINUJOY hi=fi+fi $S = fg: \forall i \in \mathbb{N} \cup \{0\}$ $S_i = \sum_{j \in \mathbb{N}} f_{ij} g_{ik}$ $S_{i} = \sum_{j=0}^{\infty} f_{j} \oint_{i-j} = \sum_{k=0}^{\infty} f_{i-k} \oint_{k}$ Te. (KIN, +, 0) - 100m. op. c 1 2-Co + -- 1 cm o occompatilendet be

$$f,q,h \in K^{N}$$
 $i \in N \cup \{0\}$
 $(fg)hS(i) = \sum (fg)(j).h_{K} = \int_{f+K=i} f_{j}g_{q}h_{K} = \sum_{f+K=i} f_{j}g_{q}h_{K} = \int_{f+K=i} f_{j}g_{q}h_{K$

earning ea.
$$e (1,0,0,-)=e |e(i)=\sqrt{1} = 0$$

Dig. $K^{N}=K[[1x]] - \pi yz=-ex$ of formanning

creation paper c knepsy. of K
 $X=(0,1,0,-)$; $X(i)=\sqrt{1}$ $i=1$
 $X^{2}=X.X = X^{2}(i)=\overline{1}$ $X(j).X(k)=\sqrt{1}$ $i=2$
 $X^{2}=(6,0,1,0,-)$
 $X^{3}=(6,0,1,0,-)$
 $X^{3}=(6,0,1,0,-)$
 $X^{3}=(6,0,1,0,-)$
 $X^{3}=(6,0,1,0,-)$
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