Пришер.

 $KH = \S \pm K \S$ 

$$Q_{8} = \{\pm 1, \pm i, \pm j, \pm k\}$$
  $H = \{\pm 1\}$ 

$$i H = 3 \pm i$$
  $i H \cdot i H = 3 + i$   $i H \cdot i H = 3 + i$ 

$$iH \cdot jH = \S K, -K, -K, KS = KH$$

$$JH = 3 + J3$$

$$e = H = eH$$

$$(iH), (iH) = \{\pm i\}, \{\pm i\} = \{\pm i\} = H$$

Tyrunen. Z, 5Z= \ 0, ± 5, ± 10, ... \ 2 0+5ZI=5ZI1+52 = \$1,6,-4,11,-9,...} 2+5 7 = 32, 4, -3, ... 3 3+5Z=23,8,-2,...4 +52/ = 84, 9, -1, 3 2/57 = 25 => 2/n7 = 2h Card 6/H = Card G ~ 16/H1 = 161 Card H Teanema o romanapague v: 6 > H - romanapperzu Im P = G/ker- P otpaz romanionopuzua Karbyo (K, +, X)  $K \neq \emptyset$ 2 onepais un (k, +) - avereba yyma. > e+ (K, x) - navysyyenna  $\forall x, y, z \in K$  $(x+y) \times z = x \times z + y \times z$  $n \times (y+z) = 2 \times y + 2 \times z$ Ecru (K, x) - manang, to (K, +, x) - Kombigo e egnuyen

```
Пришер.
1. (II, +, ·) - Kanbyo c equinizar
2. (n Z, +, 0) - Koubyo
(Q, +, \cdot)
4. (R,+.)
5. (C, +, ·)
6. 3 a + bi, a, b e Z, +, o ? - konsys ray cobsise recent
  Konbigo c equilique
     1 Im Z
       ----> Re Z
7. & n+y 52, n, y ∈ Q, +, · 3 - Koubyo
{ 20 + 3 J2 y + 3 J4 Z, 20, y, z & Q, +, · } - Koubyo
10. (C[a, B], +,·)
  ( = + Earcos(n ro) + Bn s; h (n re), +, ·) Kontago c equencuspeir
12. (Mnxm, +, .)
13 (2<sup>x</sup>, b, n)
14. (In, +, 0) - ranges maccal correctal no In/
15 (R[X], +, ·) - Koubyo wiorowerob no? un-by
```

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Tomomopague Konely
Oup. (K1, +, x) (K2, 1, x)
P: K1 7 K2
\forall x, y \in K_1 (y(x+y) = y(x)) = y(y)
(y(x+y) = y(x) * y(y)
Ker y = \{ nek_1 : \varphi(n) = e_0 e k_2 \} unsergue
Ong. Ker \varphi = \xi e_+ e_{K_1} \xi \rightarrow \varphi - uercourgeegee
Ory. In \varphi = k_2 - animopopuzu < crapbenyull
  мономоризм + этторизм = изамаразм
      инъещия + сторыещий = биенция
                 Tragnadolso
Onp. (K, +, x)
(K1, +, x) - nagransyo kanaga (K, +, x)
tryeki n-yeki, nxyeki
Tymnep. n Z - negronogo Z
Z - negronogo Q
 Orys. (K, +, x) Ugean
 (L, +, x) - nagranayo kanaya (K, +, x)
 LKCL AND KLCL
(L, +, x) - glycroporum ugean kontise (K, +, x)
 LKCL OR KLCL
(L, +, x) - ognoctoporum ugeau konsissi (K, +, x)
```

Ong. a ek ak, ka -> ak xka -> L - mabriair ugean quemental, a") Ryunep 26 = 50, ..., 53 $\alpha = 2$   $2\mathbb{Z}_6 = \mathbb{Z}_6 \cdot 2$ L = 20,2,43