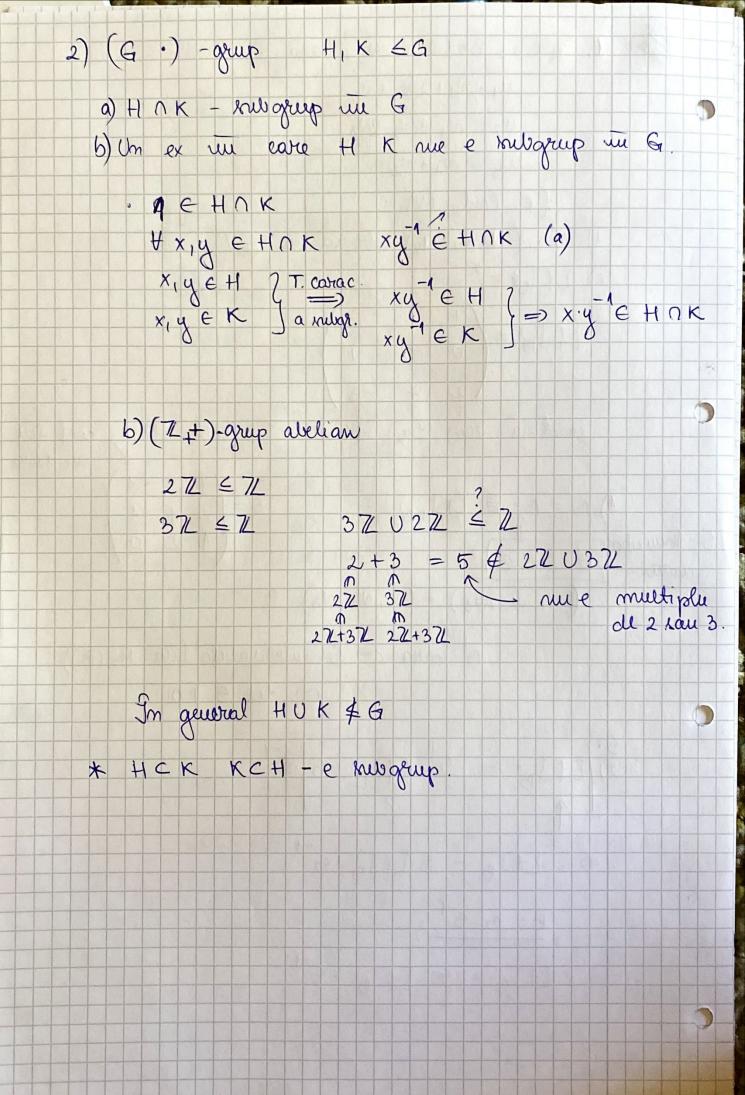
1. RV B=(N1, N2, N3) bara un V U1 = N1 + 2 N2 + N3 W2 = N1 + N2 +N3 uz = N1 + N2 fe Endir (V) 1) 10'= (N, U2, N3) borta un 12 V 2) [f] =? $[+]_{b'} = \begin{pmatrix} 1 & 1 & 3 \\ 0 & 5 & -1 \\ 2 & + & -3 \\ 1 & 1 & 1 \end{pmatrix}$ coord lui $+(u_1)$ $+(u_2)$ $+(u_3)$ un bouza b coef lui $+(u_1)$ $+(u_2)$ $+(u_3)$ $+(u_3$ $S = \begin{pmatrix} 1 & 1 & 1 \\ 2 & 1 & 1 \\ 1 & 2 & 0 \end{pmatrix}$ 1) B = B = ET] BB' S-thau zihow b'= B · S (u, u2, u3) = (N, N2, N3). S B' baza (=) 5 inversabila (ûn M3 (R)) (=) dut 3 =0 5./[t]b" = 5'. [t]b. 5 .5' => [4] 6 - S[4] 6 · S B= B.51 [f] = 5. [f] b . 5-1

BRUNNEN III



```
3.5.1. de aici ian op. uitre (R+; .) R N.S. (R+; .)
                x * x = x^{\alpha}, \alpha \in \mathbb{R} x \in \mathbb{R}^{*}
            R+- visomorphic to R-N.s. def. on (R+) by
arb-
divisor
                      the unual + and .
             ·:RXR->R (X,X) -> XX
             Fie (K;+; ) corp comutation,
                                    field
             (V; +) - ogrup abelian in : KXV -> V.
            Spenien ca V est un K N. s. if
           1) x(x+4) = xx+x4
          2) (x+p) x = \alpha x + px \forall \alpha, p \in k
          3) (x \cdot p) \cdot x = x \cdot (px) \quad \forall x, y \in V
          4) 1.x=x
            · Fie x, y & R+ x, p &
            1) x x (x.y) = (x x) · (x xy)
                  \alpha * (x \cdot y) = (xy)^{\alpha} = x^{\alpha} \cdot y^{\alpha} = (x \cdot x) \cdot (x \cdot xy)
           2) (x+p) * x = x * x . p * y
              (x+p)*x = x + p = x \cdot x^p = (x*x)(p*x)
           3) (x \cdot b) * x = x \times (b * x)

(x \cdot b) * x = x \times (b * x)

(x \cdot b) * x = x \times (b * x)
           4) 1 * X
```

 $f: \mathbb{R}_{+} \to \mathbb{R}_{$