Zahlen

Bild f: [0,1] -> [0,1]

> ve IN Aud10 f = \[ \alpha\_i \big| \Big|\_i (t)

3. 514 (t), 514 (2t), 514 (3t)...

(6s (t), (0s (2t), (0s (3t),...

Natorliche Zahlen  $M = \{0, 1, 2, \dots \}$  $a, b \in \mathbb{N}$   $a+b \in \mathbb{N}$   $a \cdot b \in \mathbb{N}$ a + 5 = 5 + a a b = 5 q a(5+c)= a5+ ac a + 0 = a  $a \cdot 1 = a$  $a \leq 5$   $\exists x \in \mathbb{N}$  a + x = 5Reflexiv a = 9 Autrosymmetrisch a = 5 1 5 = a = 5 Transitiv a 65 1 5 6 C = 7 a 6 C Totalordnong a 45 V 5 = 9 Reprasentation HH HH 111 Unar IVXL( M 4=1V V1=6 Stellenvert systeme 0,1,2,3,4,5,6,2,8,9  $x_{n-1} x_{n-2} \dots x_2 x_1 x_0 = \sum_{i=1}^{n-1} x_i b^i$ 6=10

6-2, 4=8 [0,25] C W

Ganze Zahlen
$$(a,s) \sim (c,d) \quad (=) \quad \text{a+d} = \text{64c}$$

$$Z = \{ [a,s] , a,s \in \mathbb{N} \}$$

$$\lambda g_{0} \text{volent} \text{4!}$$

$$[a,s] + [c,d] : [a+c, 5+d]$$

$$[a,s] + [a,c] : [a+c, 5+d]$$

$$[a,s] + [a,c] : [a+c, 5+d]$$

$$[a,s] + [a+c, 5+d]$$

$$[a,$$

Rationale Zahlen Q a x=6  $(o,5) \sim (c,d)$  ad = 5c D= {[a,5], a & Z\{0}, 5 eW} [a,5]+[c,d] := [ac, ad+5e] [a,5] + [c,d] := [4c,6d]  $\left[\begin{array}{c} a, s \end{array}\right]^{-1} := \left[\begin{array}{c} s, a \end{array}\right]$ [a,5] { [c,d] (ac=0)ad=5c)v(o=ac) Représentation von Q fest (be) x) = x = x = Test homma darstellung  $x_{n-1} x_{n-2} \cdots x_{e_1} x_{e_1} \cdots x_{z_n} x_{i_n} x_{o} = \sum_{i=1}^{n-1} x_i \leq i - e$ varousel (ste) = m.5 (2/P) + 40mm a -Zahlen 1,23 = 123.10-7 - Know the Xnow to Xum .... Xo = 1230 -10-3 = 12806.10-4 1 5 m 5 5