UB 2 - Aufogse 4 1) Wir Judien L= 9 x & R | x + 0 , x + -1 , 2 < x+1, 3 and teiler and: L=L1 UL2UL3

when I g.... L1= 9X61R | X70 1 PCX)3, L2= 9X61R | -12X20 1 PCX)3, L3 - 9 x & IR (X < - 1 1 1 P (x) 3 und bestimmer L1 = 9xcR | x70 x x+0 xx+0 x x+1 x = 0 da $\frac{1}{x+1} < \frac{1}{x} \quad \forall x.70.$ broudten wis gas night! Leeve thenge L2 = 9xeR -1<x<0x = 0xx+11 x 2< 41 3 = 9xeR 1-1<x<03 da: * * * * 17 × 47 × 9.4. \$ X & IR L3= { x ∈ R | x ∈ -1 ∧ x + -1 ∧ x < \frac{1}{x} = 0 da \frac{1}{x} < \frac{1}{x} \cdot \frac{1}{x} \ L= 120 420 43= 00 (x 6/R (-1 < x < 03 00) Danit: = {x \in |R | -1 < x < 03}

genult: L= 9 x e/R | (x+1)- k-1) 2 1 3

Wie oben -- die Menge aufteilen um die Betragsstriche aufzuloesen..

3=9xeR | X711 x+1 -(x-1) > 13 Ln = 9x elR / X71 1 (x+1) - |x-1| > 1 = 4 x eR | X71 1

= {xeR | 1 < x 3 · da 27/1 inner

L2 = 9x ER | -15x <1 . 1 (x+1) - |x-1) -2.13.

= 4xeR | -15x <1 1 x+1--(x-1) 7.13.

= 9xelR |-15x<1 1 x+1+x-1 > 13= 4xER |-15x<11 2x713

= 9x = |R \-1 < x < 1 x × 2 = 3

= 9xelR | 1 = x < 13

23= 9xe1R | x < -1 ~ |x+1 | - |x-1 | 7.13

= 9xe 1R | x<-1 1 -x-1+ x-1)213 = 9xe1R | x<-11-2713

"Tried Koning" = Q da innerfalsch!

=) L= 4x & R | 2 = x 3