Aufqabe 1) a) {1, 23 ~ {1, 3} = {13} => {13} EF E1,23 2 E1,43 {1,2} \ {1} = (2] => {2} EF [3,43 n [1,43 = [4] => [4] EF €3(43 \ {43 = {33 => €33 ∈ } 57,237 83,43 = \$ => \$ 65 => Durch + C F = U {x} => o(") = F 0 b) (=5 (5+10=1 \$ (4, 81, 78) (12/1 1/2 / 4 5/1)) / Xy ist laine ZV, weil xy t Z. B. z.B. x-1 (1) = { (1/i) , i = 1,2,3} ist, /aber diese 40/((:, 87, 23), i 2 1), mil 3 in Winer der Elemete der 5- Algebra 5 Un Z. Pagolintong liegt, wil dies auch. für die levzengende Menge so ist xz fist eine ZV.

BRUNNEN III

zu Aufgabel) (b) Beh &= { u e s | ti: (i, 1) e u => (i, 2) e u} Ben : Fir Elemente aus ((1, 27, 23), 121) gilt das, diso für alle Elemente ans o ((...)) anch. Die andere lublusion enfolgt sofort aus $M \in S = > M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = > M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = > M = U ((i, 1) \in M) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = > M = U ((i, 1) \in M) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = > M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = > M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = > M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = > M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = > M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = > M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = > M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = > M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = > M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = > M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = > M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = > M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = > M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = > M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = > M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = > M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = > M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = > M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = M = U ((i, \{1,2\})) \cup ((i, \{1,2\}))^{(oup)} \in S$ $0 \in S = M = U ((i, \{1,2\}))$ $0 \in S = M = U ((i, \{1,2\}))$ $0 \in S = M = U ((i, \{1,2\}))$ $0 \in M = U ((i, \{1,$ P ty ist nun ZV, da $x_1^{-1}(n) = \{(u, j) | j=7, 2, 3\} \in F$ veil (4,1), (4,2) € th · x2 ist heine 2U, da +2-1(u) = { ((1)) | j = { (i,j) | i= n} und fir = 2 ist (42,2) = +2-7(2) (42, 1) \$ +2-7(2) \$ and $ma+(1,2)=2\leq 4$ mat(2,2) = 2 ≤9 BRUNNEN [1] => (i, 2) e +3 (u) (=> (i,1) e +3 (u) =) # (") E S