```
1) (an) went or St (2) A ENEW ANSN: lan-ale
       tt: ]-\infty, \alpha [\subseteq \lim_{n \in \mathbb{N}} \lim_{n \in \mathbb{N}} ]-\infty, \alpha_n] = \bigcup_{n \in \mathbb{N}} \bigcap_{k \ge n} [-\infty, \alpha_k]
            Sei xE]-xo, at bel. Sei E= \(\alpha - x\). \\ \IN \(\beta n \gamma N : | a_n - a | \in \empty N \gamma N \gamma \alpha \empty N \gamma N \gamma \quad \empty N \gamma N \gamma \quad \quad
                                    => XEU ) -00, ax]
         LE: fining J-00, and E limsup J-00, and

II

U M J-00, ak]

NEW KAN

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NEW KAN
           Sei x bel. I nEN Yndro x E J-00, and ZZ: VnEN Ikzn: x E J-00, and
                     Sei ne N lel. Walle K= max (no, n) => x e]-oo, an]
                                                                                                                  => X E ( U ) - w, an ]
         tz: Limsup J-00, an ] & J-00, a]
Seixe ( U ]-0, ak] bel. d.h. Vn EN 3kzn: KE]-00, ak]
              Angenommen x & J-00, a ] => a < x Sei E = x-a = INEN Vu >N: |an -u/ < E
                  Far No 3 k>No: xe ]-w, ax], da |ax-a/ < x-a kann x midd glidzilig
                                                                                                                     => x e ] - w, a ] ] = d x
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