N. 2 $(\Rightarrow) \hat{A} = A(1_{+}(A^{-1}u)v^{T})$ (=) A = A(1+VTA") Da det (A) = 0 sen mus (A ist sign lai) gilt weiter del (A) - del (A). del (1, v 1 1-1) C> Jet(A) = det(1+ v T A ~ v) (=) 0=1+vTA-14 Es mus gells: $\hat{A} \cdot \hat{A} = \hat{A} \hat{A} = I$ Zunichis. Â.Â. = (A. . . .) (A. - a.A. ~) = AA-1 , word-1 - & (1 A hort A - word-not A-1) = I + vv1A-1 - & (uv1A-1+ ul1A-1u1A-1) = I + wv7A-1 - a(uv7A-1(1+ v7A-1a)) = I + UVTA - a UVTA-1 & = 1 + uv A-1 - uv A-1 = 1// $\widehat{A}^{-1} = (A^{-1} - uA^{-1}u + A^{-1}) + i \qquad \alpha = 1 + \sqrt{A} = 0$