jen 1. 11 All >0 V 2. 112+11= max12. a; = 2. max1a; = 2-1A11 3. NA+BUSH = maxlai, j+ 6; j = maxlai, j+ + + max18; j = 11411 + 11811 4. 11A. BII = max less - Ziai Bill & naxlais 11~ nax 18ist Orbes: mes, n/A/ ne mass. Hoping

N3 AX = XX 17AX11 = 11XX11 = 11A11.11X11 2.11×11 = 11 All 11×11 2 = 11A11

- IIAII = sup IIIIV - Hopria reampular A -7. 12-1 (B-60 manfrunde proprior: 1) 1121/ 20, 181/ =0 mm Bij=0 2) 112.B11=K1.11B11 gree 42 4B 3) IIB+CII & IIBII+IICII YB,C 4) 11B. CII EIIRII. IICII 1) orebugue 1/2. A.yllv = 121. July 11411 v = 2) 1/2. All = sup 1/4/1/2 = 121. July 1/4/1/2 Don-60. MAII MAII (=> \frac{||A \cdot x||}{||x||} \lefta ||A|| \frac{||x|| \def 0}{||x|| \def 0} \rightarrow 0 \lefta 0. $\|\mathbf{y}\|_{2} = \sqrt{(\mathbf{x}, \mathbf{x})}' = \left[\sum_{i=1}^{m} (\mathbf{x}_{i}^{2})\right]^{1/2} \quad \|\mathbf{x}\|_{2} = \max_{1 \leq i \leq m} \|\mathbf{x}\|_{2}$ (1A1) = max [100] $\Delta 2^{-2}$ $\|\mathbf{x}\|_{\Delta} = \sum_{i=1}^{m} \|\mathbf{x}_i\|_{\Delta}$ MANy = max Z levil ||A||₂ = rup ||A y ||₂ = rup ||Ay, Ay|| = rup ||ATA y, y|| 6 ||A||₂ = rup ||Ay, Ay|| = rup ||ATA y, y|| 6 ||A||₂ = rup ||Ay, Ay|| = rup ||ATA y, y|| 6 ||A||₂ = rup ||Ay, Ay|| = rup ||Ay, Ay|| = rup ||ATA y, y|| 6 ||A||₂ = rup ||Ay, Ay|| = rup ||Ay, Ay|| = rup ||ATA y, y|| 6 ||A||₂ = rup ||Ay, Ay|| = rup ||Ay, |14x1|2= Z, Z, Q; X; = Z, X; u; u; x; E sup [Zci x: [Sup max x: Zci] = sup [max xi]] MANY = Man Suphi ATA