Assignment -5 Classmate

Date
Page Que 1: - Express the following as can Socp min CTM et non 5 yz'

y2+2251 Soling General Sock from 770,27,0 ncen, y, 2er Givens) $m^{T} = (y^{2} + y^{2} + y^{$ 7 Tá (yz - 27) (y+z y z 7,0 One 2' formulate the following as socr (a) mar (a, n-bi) et. a n-bizo z min & 1 ist at orthi Pro

epigraph form min 3 ti -> 15(at x-bi) 6 fr 20 (id, 000) ti (a, m-h)7/ Dus- some tre least norm problem when AERMAN with you & min (71)2
= 7 7 St An=6 Shy Wring lagrangian duality $F(x, \lambda) = \overline{x} \overline{x} + \overline{x} \overline{x} (Anto)$ F= \(\frac{1}{2} + \frac{1}{4} \)

\[
\text{F} = 2 \tau + A \(\frac{1}{4} - 0 \)

\[
\text{Settly gradule aso}
\]

\[
\text{F} = -1 \(A^T \)
\[
\text{F} = -1 \(A^T \) finding Turning constraint 7 A(JATA)2b 7-1(AAT) J=b - T= -2 (TAT) 1 b (-2)



Substituting of 0 in 0 $\tilde{n} = \pm A^{T}T$ $= \pm A^{T}(-2CAA^{T})^{T}b$ $\tilde{n} = A^{T}(AA^{T})^{T}b$ | lear A norm 20/u