MATZAIS assignment 1/2 at Qu+ cTr a) Minimize Ausb Subject to · Qn+C-Ay-5=0=> Ay+5-Qn=c I b) Minimize For 12 mt Bus con + MI-ly-1-41 Subject to Luib VF. QN+C-MZei 2QNOC-MXe L = F + J(b- A3) VL=VF+A'y = Qn+c-MXe-Ay =0 KKT: (QX+NX)e + C+Aj-0 by comparing IS I reconsect hat by chousing JI - JI & Sa Mile => Se= MXe=> XSe= Me Using both of the KKT conditions we arrive at the set of equations: An, b ATy+5-QuiC Xseipe

X20,520

c) since by choosing $y_{\perp} = y_{\perp}^{*}$ & $s = \mu \times e$, the ∇L will be zero for the primal problems thus by using these values & setting $y_{\perp} = y_{\perp} = y_{\perp}$ which we get: $y_{\perp} = y_{\perp} = y_{$