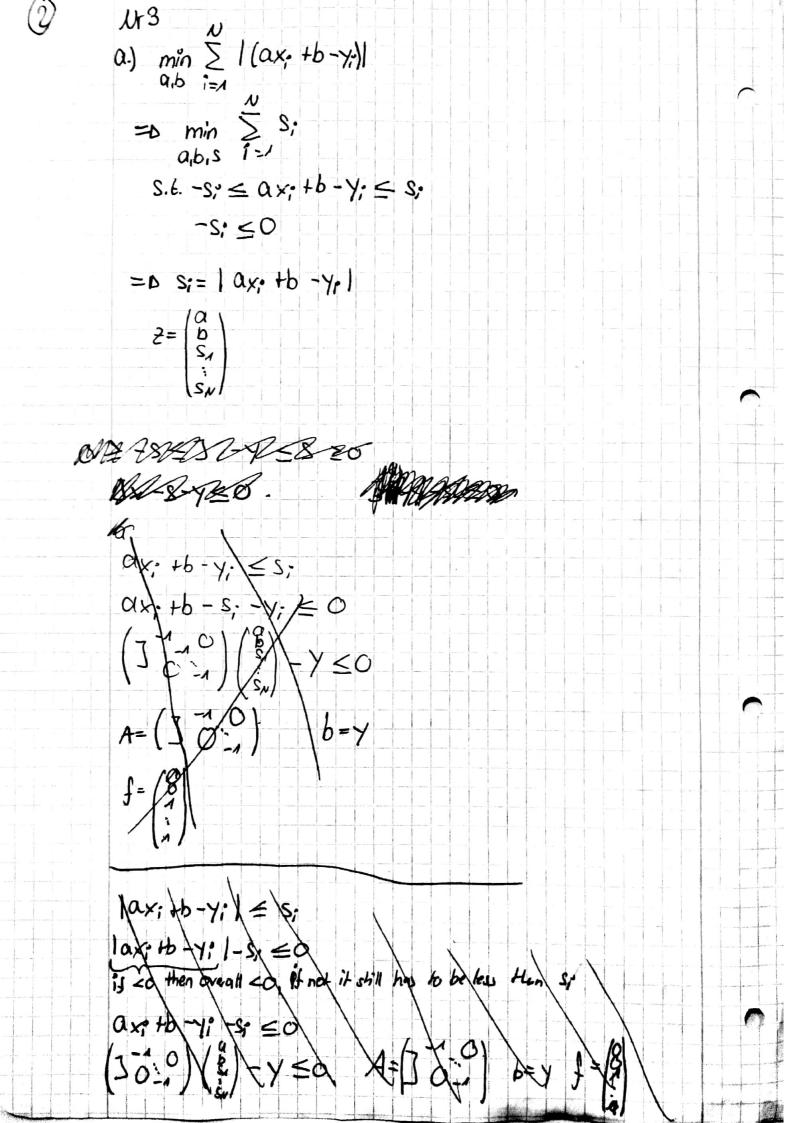
Ex O4 09.11.17 Mm Opt Nel ag min  $\frac{1}{2} \| \eta - Jx \|_2^2 + \frac{2}{2} (x - \overline{x})^T Q(x - \overline{x})$ pure quadratic due to a symmetric and 6.23:  $\sum_{i=1}^{n} \{b_{i}(x_{i} - \overline{x_{i}})^{2} = 1 - B(x - \overline{x})\}_{2}^{2}$  $(x-\overline{x})^T Q (x-\overline{x}) =$ where B = ( D. D.) WMANON B 70 (all signs of que function pos.) 6.23: X = (3] + 4] JA Lemma 61: lim (JJ+qI) JTn=Jn=VSVTn where s Vf(x)=JTJx-JTn+a-TB-TBX+ a-TBTBX 18 -18 = R Pf(x) = 3 ]x - 3 n + 4 e x + 4 e x = (JTJ + ar) x - JTn + arx  $x^{+} = 1 + \alpha (3^{T} - \alpha e^{-1})$ 4-60 (37) - 3 - 1 = VS+U whee S = (0,0,0)



3) 
$$\mu_{m}O_{p}t$$
  $E \times C4$ 
 $-s_{i} \leq a_{x_{i}} + b - y_{i}$ 
 $= x - s_{i} - a_{x_{i}} - b + y_{i} \leq 0$ 
 $\left(-\frac{1}{3} - \frac{1}{3} \cdot \frac{0}{3}\right) \approx + y \leq 0$ 
 $a_{x_{i}} + b - y_{i} \leq s_{i}$ 
 $a_{x_{i}} + b - y_{i} - s_{i} \leq 0$ 
 $\left(\frac{1}{3} - \frac{1}{3} \cdot \frac{0}{3}\right) - y \leq 0$ 
 $\left(-\frac{1}{3} - \frac{1}{3} \cdot \frac{0}{3}\right) \approx - \left(-\frac{y}{y}\right) \leq 0$ 

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$$\begin{pmatrix}
-J \stackrel{?}{\circ} \stackrel{?}{\circ} \\
J \stackrel{?}{\circ} \stackrel{?}{\circ} \\
A$$

$$\begin{pmatrix}
-Y \\
Y
\end{pmatrix} \leq 0$$