## Examples

(Acohoex) ~ (Aslalu) holds.

KKT: (I)

KKT(I) 2(x\*-5)-2=0

=> 2/=-46 Con th=0 => X=5. V

In this case

We know already (Acorver) hads 3 xx optimal solution and of training data by. sep ds. (Aslaka)

KUT (I) du 80(0\*) + ∑ x1 du 8(0\*) = 0 =>  $u^* = \sum_{i=1}^{n} x_i y_{(i)} x_{(i)}$ 

KKT(II) di filut =6 for di 20 LKT (II) enpty

i sud that  $gi(w^*) = 0$ Otherwise  $\alpha_i = 0$