20=2-ま No Wer on w w12, +b =0 113 => w (7-3)+b=0 W(7-03)+b=0 WTRTS WW 7 = warb. 3 y www 11 d1/2 = Jd d X JWW = W 2+5 JWW 2 W 2+5  $=\sqrt{\alpha^2\omega^7\omega}$ JUW ww 11d1, 2 wx+5 11 W12 Margin 8 (w, 5) - min wix 45 1 XED II WILL of danker Aim Find w which maximizes of (w, s), but not this? so need a comfaint to y: (w/x: 12) >0 with whant min WW MEX RED w, 17 ( min way + 5 WTW NED Mex our hypothers H = {x: wix+b=03, Rescale it W,5 such that min Wa+5=1 or min www pendola neo so now we are left with way with w,b Wy Potting the two constraint together y:(w7 40+6) >1 linear V: 4: (W"x:+5) 70 } => unstraint min w7 \* + > = 7 260 3 Uge; Quadratic problem solver