21 - 1 S (ReLU(ax; -6) - 1 + 605(x;)) 11 max (ax; -6,0) 1 5-(Rely (axj-1)-1+ cos(xj)) max (ax;-b,0) All region where VF=0 (1) Ha,D = 1 & 1Rella (axi-1) - 1+cos(xy)2 N. X. 19-14 + 9-12x es regions We come at

let It be the set of indical site axj-6>0. Then

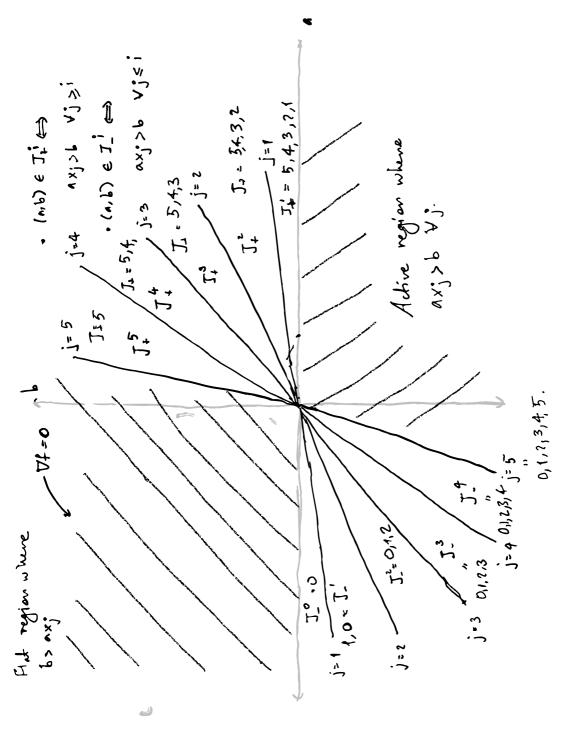
3f = 15/60 [(att.) - 6 - 1 + cos(11)/10)]]

 $= \pi/60 \sum \left[ \frac{\alpha \pi j^2 - 6j - j + j \omega s(\pi j/10)}{3 + j \omega s(\pi j/10)} \right] = 0$ 

= . E on [2 - bj - j + j ws(mj/10) = 0.

 $\frac{3f}{9b} = -\frac{1}{6} \sum_{j \in J^{+} 10} \frac{1}{10} - \frac{1}{10} + \frac{1}{10} \frac{1}{10} = 0 \Leftrightarrow A = 0. - (1)$ 

Similanly,



o Note that in the flat region, nowe of the constraints are adire
i.e b>ax; Y; so max(sgn(ax;-b),0)=0 so 
$$\nabla f(a,b)$$
 is
trivally 0. Here  $f = \frac{1}{12} \sum_{j=0}^{\infty} (1-\cos(\pi j)/10)^2$ .

o In the west of the regions It constraints are adire so Here the without point equations become 02/2 = - 1 E ( on 1 - b + g; ) = 0 - (z)

for je 3° and - 6 > 0 for jet. 2 ATT C P

							0,	
eystem:	<u> </u>		Solving Huse in each vegion: Active, 5; & To	we find that outy Is admits a valid goldfon (at 1 th)	movemen 1/3p(ar 12) < 0 so it is incleased a minimum m.	Since it is the only with all point outside the test	region & f(a*, b*) < f(0,0) so (a*, b*) 13 the	

Equations (1) & (2) reduce to the following linear

