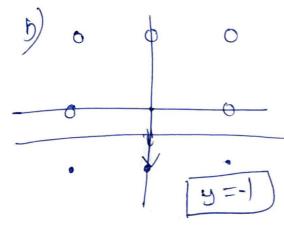


boundary

egn of Decision boundary = 
$$W^T x + y$$
  
 $b = -W^T x$  (x, point of decision boundary)  
 $b = -[-2,1][0]$ 

$$\boxed{b=0}$$



$$J = [0, -2]$$
 - weight weator they are normal to Decision boundary

$$b = -\begin{bmatrix} 0 & -2 \end{bmatrix} \begin{bmatrix} 2 \\ -1 \end{bmatrix} = -2$$

$$b = -\omega^{T} \times \left(-1,2\right) \times \frac{Ch}{\text{observed}}$$

$$b = -\left[2,-2\right] \left[-\frac{1}{2}\right]$$

