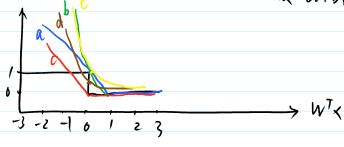
$$\frac{2017 \mp 4 + 13 + 1}{1} = \frac{20:34}{6} \left( 1 - \frac{d+1}{4} \right) = 0.1^{2} \left( 1 - \frac{8+1}{4} \right) > 0.08 = \frac{1}{1} \sqrt{3} > 4$$

Cb) 韬误, 20果 H 可逆、由于 H2=H, 例 H2+1-1=HH21 => H=I

(c) 锰设: Hy=1y=分,分型y的推炼, 最只有配型 1-1 (d) 正确 (e) 证确 多次投资和当于1次投影

3. ky=1为明任国

Q a.b, e मुफ्ड हि



4. b, d, e 2121. 9362

5, em(w)= max (0, -ywx) 不知性假设 y=1

 $0 \text{ W}^{7} \times 0 \text{ err cw} = -yw^{7} \times \text{ Verr} = -y \times \text{ y} \neq slgh(w^{7} \times)$ 

©  $W^{7}X > 0$  err( $W^{7}$ ) = 0 Verr = 0  $Y = Sign(W^{7}X)$ F( $X > Sign(W^{7}X)$ 

 $W_{4+1} \leftarrow W_4 - \eta \nabla err$   $\stackrel{(5)}{5} \eta = 1 \quad |M| \quad W_{4+1} \leftarrow W_4 - \nabla err = W_4 + ||y \neq sign C W^3 X)||C Y X)$   $\stackrel{(5)}{5} \eta = 1 \quad |M| \quad W_{4+1} \leftarrow W_4 - \nabla err = W_4 + ||y \neq sign C W^3 X)||C Y X)$ 

6, VE(n.v)= (en+venv+2M-2V-3, 2e2v+Menv-2M+4V-2) VE(n.v)==0,0=0 = C-2.0)

7. (MHI VIII) = CM, NI) - 1 VE(M.V)

国用6日保建设计算、易谱 E(M, Vs) = 2.825 多见月的

8,  $\frac{\partial f'}{\partial h'} = e^{h} + v^2 e^{hv} + \lambda$   $\frac{\partial^2 F}{\partial v} = 4e^{2v} + h^2 e^{hv} + 4$   $\frac{\partial^2 F}{\partial h^2} = e^{hv} + hve^{hv} - \lambda$ 

8, 
$$\frac{J_{h}^{2}}{J_{h}^{2}} = e^{A_{h}}v^{2}e^{A_{h}}v + A = \frac{J_{h}^{2}}{J_{h}^{2}} = 4e^{2A_{h}}v^{2}e^{A_{h}}v + A = e^{A_{h}}v + A ve^{A_{h}}v - A = e^{A_{h}}v^{2}e^{A_{h}}v + A ve^{A_{h}}v - A e^{A_{h}}v + A e^{A_{h}}v +$$

$$\frac{JEm}{2W_{i}} = \frac{1}{N} \sum_{i=1}^{N} \left( \frac{exp(W_{i}^{T}X_{h})}{\frac{E}{e^{2}} exp(W_{i}^{T}X_{h})} \times_{h} - [[Y_{n}=i]]X_{h} \right)$$

$$= \frac{1}{N} \sum_{i=1}^{N} \left( \left( \frac{h_{i}(x_{h})}{h_{i}(x_{h})} - [[Y_{n}=i]] \right) \times_{h} \right)$$