エベトの小生候をみたしていから、、、、、カーはないないことにする。 (x, y) ~ (x, y) = (x, y) (x, y) = x, y, + ... + x, y, (x, y) = x, y, + ... + x, y, (x, y) = x, y, + ... + x, y, (x, y) = x, y, + ... + x, y, (x, y) = x, y, + ... + x, y, (x, y) = x, y, + ... + x, y, (x, y) = x, y, + ... + x, y, (x, y) = x, y, + ... + x, y, (x, y) = x, y, + ... + x, y, (x, y) = x, y, + ... + x, x, y, + ... + x, y i) ⟨x,x⟩≥0 , ⟨1,1⟩=0 ⟨=⟩ x=0 $\langle ... \rangle : \bigvee_{x} \bigvee_{\rightarrow} \mathbb{R}$ ii> くx, を引きるくx, り>、 のを見 1月 休東 (東ベットに空间) <x+y, 2>= \x, 2>+ <y, 2> < 12,17+(1,12)=(2,1/12) (1, 2,1/2)=(1,1/2)+(1,2) ▽ 東ベットに空间 (x, b) = (b, x) X : € 173

$$\langle x, y \rangle^{2} \leq \langle x, x \rangle \langle y, y \rangle$$

$$0 \leq \langle \langle x, y \rangle x' - y , \langle x, y \rangle^{2} + \langle y, y \rangle + \langle y, y \rangle$$

$$= \langle x, y \rangle^{2} \cdot \langle x, y \rangle x' - y , \langle x, y \rangle^{2} - \langle x, y \rangle^{2} + \langle y, y \rangle$$

$$= \langle x, y \rangle^{2} \cdot \langle x, y \rangle x' - \langle x, y \rangle^{2} + \langle y, y \rangle^{2} - \langle x, y \rangle^{2} + \langle y, y \rangle$$

$$= \langle x, y \rangle^{2} \cdot \langle x, x \rangle - \langle x, y \rangle x' - y \rangle - \langle x, y \rangle \langle x, y \rangle + \langle y, y \rangle$$

$$= \langle x, y \rangle^{2} \cdot \langle x, x \rangle - \langle x, y \rangle \langle x, y \rangle - \langle x, y \rangle \langle x, y \rangle + \langle y, y \rangle$$

$$= \langle x, y \rangle^{2} \cdot \langle x, y \rangle x' - y \rangle - \langle x, y \rangle \langle x, y \rangle + \langle y, y \rangle$$

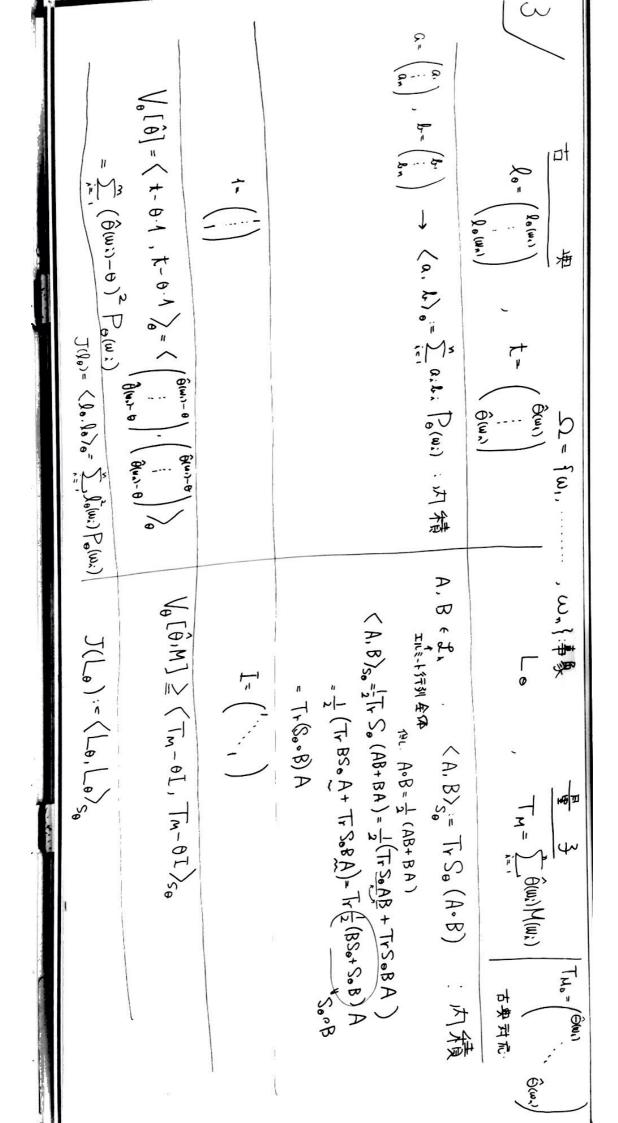
$$= \langle x, y \rangle^{2} \cdot \langle x, y \rangle - \langle x, y \rangle \langle x, y \rangle - \langle x, y \rangle \langle x, y \rangle + \langle y, y \rangle$$

$$= \langle x, y \rangle^{2} \cdot \langle x, y \rangle - \langle x, y \rangle \langle x, y \rangle - \langle x, y \rangle \langle x, y \rangle + \langle y, y \rangle$$

$$= \langle x, y \rangle^{2} \cdot \langle x, y \rangle - \langle x, y \rangle \langle x, y \rangle - \langle x, y \rangle \langle x, y \rangle + \langle y, y \rangle$$

$$= \langle x, y \rangle^{2} \cdot \langle x, y \rangle - \langle x, y \rangle \langle x, y \rangle - \langle x, y \rangle \langle x, y \rangle - \langle x, y \rangle \langle x, y \rangle + \langle y, y \rangle$$

$$= \langle x, y \rangle^{2} \cdot \langle x, y \rangle - \langle x, y \rangle - \langle x, y \rangle \langle x, y \rangle - \langle x, y \rangle \langle x, y \rangle - \langle x, y \rangle -$$



 $V_{\theta}[\hat{\Theta}] J(\ell_{\theta}) = \langle t-\theta 1, t-\theta 1 \rangle_{\theta} \langle \ell_{\theta}, \ell_{\theta} \rangle_{\theta}$ \(\lambda \) = \(\sum_{i=1}^{\infty} \theta(\mu_i) \) \(\lambda_0(\mu_i) \) \(\la Vo[0] > J(No) ot 2 < t-0.1, l. >2 Ω= 1ω,... · ω, {: V_θ[θ, M] J(L_θ) ≥ (T_M- θ·I, T_M- θ I)_{S₀} (L₀, L₀)_{S₀} (I, La) so = Tr So = (I. La+LoI) - Tr SoLo = = (Tr Solo + Tr Solo) = Tr do So = do (Tr So) - 0 = \\ \text{\tin}\text{\tint{\text{\tett{\texi}\text{\text{\text{\text{\text{\texi}\text{\text{\text{\texi}\text{\text{\text{\text{\tet{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\te = 5- 8 (w;) Tr (So oLo) M(w;) = 5- 8 (w;) Tr (No) M(w;) = (\(\Tm, L_0\)_{S_0} - \(\theta\)_{\T, L_0\}_{S_0}\) = 1 (Tr So Lo + Tr Lo So) = Tr 1 (So Lo + Lo So) - Tr Soo Lo < (TM-OI, Lo)

50=150150 ◆ E原下\: 150 × $\sum_{k} (\hat{\theta}_{k})^{2} M(x) - (\sum_{k} (\hat{\theta}_{k})^{2} M(x))^{2} - (\sum_{k} (\hat{\theta}_{k})^{2} M(x))^{2} + (\sum_{k} (\hat{$ $\sum_{n} (\hat{\theta}(n) - \theta) M(n) (\hat{\theta}(n) - \theta) - \sum_{n} (\hat{\theta}(n) - \theta) M(n) \sum_{n} (\hat{\theta}(n) - \theta) M(n) - \sum_{n} \sum_{n} (\hat{\theta}(n) - \theta) M(n) M(n) M(n) - \sum_{n} \sum_{n} (\hat{\theta}(n) - \theta) M(n) M(n) M(n) - \sum_{n} (\hat{\theta}(n) - \theta) M(n) M(n) M(n) - \sum_{n} (\hat{\theta}(n) - \theta) M(n) M(n) M(n) M(n) - \sum_{n} (\hat{\theta}(n) - \theta) M(n) M(n) M(n) M(n) - \sum_{n} (\hat{\theta}(n) - \theta) M(n) M(n) M(n) M(n) - \sum_{n} (\hat{\theta}(n) - \theta) M(n) - \sum_{n} (\hat{\theta}(n)$ $T_{M-\theta I} = \sum_{\mathbf{x} \in \Delta} (\hat{\theta}(\mathbf{x}) - \theta) M(\mathbf{x})$ $\sum_{\mathbf{x} \in \Delta} [(\hat{\theta}(\mathbf{y}) - \theta) - \sum_{\mathbf{x} \in \Delta} (\hat{\theta}(\mathbf{x}) - \theta) M(\mathbf{x})] M(\mathbf{y}) [(\hat{\theta}(\mathbf{y}) - \theta) - \sum_{\mathbf{x} \in \Delta} (\hat{\theta}(\mathbf{x}) - \theta) M(\mathbf{x})] \geq 0$ $\sqrt{s} \sum_{k} (\theta \omega - \theta) M(\kappa) \sqrt{s} \geq \sqrt{s} \left(\sum_{k} (\theta \omega - \theta) M(\kappa) \right)^{2} \sqrt{s} \left(\sum_{k} (\theta \omega - \theta) \sum_{k} (\theta \omega - \theta)$ $\sum_{k} \left(\hat{\theta}_{(k)} + \hat{\theta}_{(k)} \right) = \left(\sum_{k} \left(\hat{\theta}_{(k)} - \hat{\theta}_{(k)} \right) + \left(\sum_{k} \left(\hat{\theta}_{(k)} - \hat{\theta}_{(k)} \right) \right) \right) = \sum_{k} \left(\hat{\theta}_{(k)} - \hat{\theta}_{(k)} \right) + \sum_{k} \left(\hat{\theta}_{(k)$ $T_{M} = \sum_{x \in \Omega_{L}} \widehat{\Theta}(x) M(x) , \Omega = \{\omega_{1}, \dots, \omega_{n}\}$ TrNS. 5 (BM-0) MM/S. 2 TrNS (2 (BM-0) MU)) N S. ゴレベート ... V₀[0,M] ≥ (Tm-01,Tm-01)> MYO. A:III-(4)AMA|4>= < A4| M|A4> ≥ 0 57 84, ATIAMAIA>>>0 ON MYO ES YY KAIMAY YOU =) AMA ≥ O