Memo $\begin{vmatrix}
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 & 1 \\
1 & 1 & 1 & 1 &$

Memo

$$\overline{C} = [u_1, ..., u_J] \cdot [v_1, ..., v_J]$$

$$= \sum_{i=1}^{n} v_i v_i$$

$$= \begin{bmatrix} U_i & U_j \\ U_i & U_j \end{bmatrix}$$

$$= \begin{bmatrix} U_i & U_j \\ U_i & U_j \end{bmatrix}$$

$$= \begin{bmatrix} U_i & U_j \\ U_i & U_j \end{bmatrix}$$

$$= \begin{bmatrix} U_i & U_j \\ U_i & U_j \end{bmatrix}$$

$$= \begin{bmatrix} U_i & U_j \\ U_i & U_j \end{bmatrix}$$

$$= \begin{bmatrix} U_i & U_j \\ U_i & U_j \end{bmatrix}$$

$$= \begin{bmatrix} U_i & U_j \\ U_i & U_j \end{bmatrix}$$

$$= \begin{bmatrix} U_i & U_j \\ U_i & U_j \end{bmatrix}$$

$$= \begin{bmatrix} U_i & U_j \\ U_i & U_j \end{bmatrix}$$

$$= \begin{bmatrix} U_i & U_j \\ U_i & U_j \end{bmatrix}$$

$$= \begin{bmatrix} U_i & U_j \\ U_i & U_j \end{bmatrix}$$

$$= \begin{bmatrix} U_i & U_j \\ U_i & U_j \end{bmatrix}$$

$$= \begin{bmatrix} U_i & U_j \\ U_i & U_j \end{bmatrix}$$

$$= \begin{bmatrix} U_i & U_j \\ U_i & U_j \end{bmatrix}$$

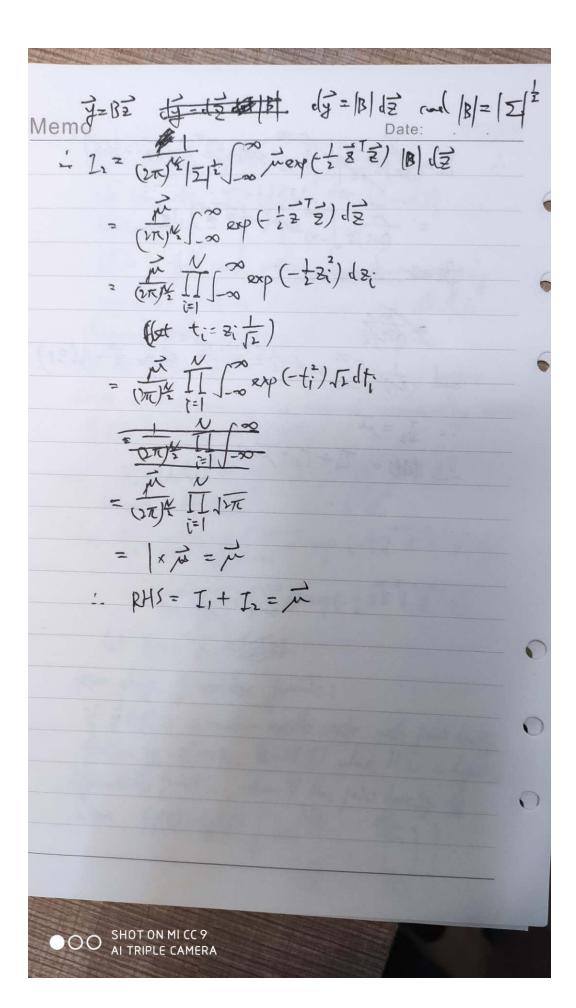
$$= \begin{bmatrix} U_i & U_j \\ U_i & U_j \end{bmatrix}$$

$$= \begin{bmatrix} U_i & U_j \\ U_i & U_j \end{bmatrix}$$

Memo

4. $\forall x \in \mathbb{Z}$, $\vec{x} = [\vec{x}] = [\vec{x} \neq \vec{y}] = [\vec{x} \neq \vec{y$

/lemo -: Zi positive ofitto and symplish ! we can write I= U/U for U and 1 W extains Use a full mak orthogonal metric containing eigenteters of I as its column and A 1 is alignal matrix containing I's eigen values and we define A = Eprin to be changed matrix whose entries one square roots of corresponding entries of 1/4, 1/4, 1/4L=UNUT = UNt(Nt) TUT = BBT Wave B=UNt, Z=BB 1. [= (=) = | = (- + 7 B B 7) dy = (m/4BBT= [= Bep(-175B+7) 4 let = B 7 = (3) from dag of various forma? if JER is a random which water with point devity firetion to: R->R, Z=H(7) where H is a sipertive differation function, then \$\frac{1}{2} has joint dessity for have \(\frac{1}{2} = for \frac{1}{2} \) \| \det \(\frac{1}{2} = for \frac{1}{2} \) \| \det \(\frac{1}{2} = for \frac{1}{2} = fo



Memo 5. オール(ボ, E), ==E(x)=(マル(ズル)(ズール)(マル) $PHS = \int_{-\infty}^{\infty} (\vec{x} - \vec{\mu})(\vec{x} - \vec{\mu})^{T} = \frac{1}{(\vec{x} - \vec{\mu})^{T}} \sum_{i=1}^{\infty} (\vec{x} - \vec{\mu})^{T} \sum_{i=1}^{\infty} (\vec{x} -$ In problem 4. $A=p(\vec{x})$ $L_2=-2\vec{x}^T\int_{-\infty}^{\infty}\vec{x}'p(\vec{x})d\vec{x}'=-1\vec{x}^T\vec{x}^T$ $L_3=-2\vec{x}^T\int_{-\infty}^{\infty}\vec{x}'p(\vec{x})d\vec{x}'=-1\vec{x}^T\vec{x}^T=-1$ $L_4S=-1$ $L_4S=-1$ $L_4S=-1$ and I = SEE E[XXT] => PHS=ECXXT]-TIT ごを一き(ズール)(ズール)「ブーブ」 = ド「ママールマーマルナーブーブー = E[式了-E[式了-E[式了+E[式了] = E[式了- 产E[式了-] をE[式] 「+ デー =EはオリーデデーデザーデザーEはデアーン 1. RHS = 5 + AM - MAT = 2

.: gassan poly can be written as, $P(\vec{x}) = \exp\left(3 + \eta^T \vec{x} - \frac{1}{2} \vec{x}^T / \vec{x}\right) \mathcal{D}$ where 1= 2 = 2 = 5th, 3=-{(Nh(x)-h/1)+917) when 29 = - 1 (W (n) m - 2 (n//k) + 2 9/ 1/ 1/k) ·· 丁克(家)=0xp (三水十条一次十条一次十二次 三小人) 元] = exp(\$\frac{\x}{\x} - \frac{\x}{\x}) exp(\x + \frac{\x}{\x} - \frac{1}{\x} \frac{\x}{\x}) @ when The Zilk, MEZILK and 3 = - 1 (Nh2x - h/1/x) + 1/x /x /x) is comparing 0 20 with 3, we have 1=1k == 1k ==