Sattet har nendelize mange francis og C+O Har da Gazaing for alle P

3.
$$A = \begin{pmatrix} 1 & -\alpha \\ \alpha & 1 \end{pmatrix} B = \begin{pmatrix} 1 & \alpha \\ -\alpha & 1 \end{pmatrix} A^{\frac{1}{2}} \begin{pmatrix} \frac{1}{1+\alpha^2} & \frac{\alpha}{1+\alpha^2} \\ \frac{1}{1+\alpha^2} & \frac{1}{1+\alpha^2} \end{pmatrix}$$

$$13 = A^{\frac{1}{2}}$$

$$A + A^{\frac{1}{2}} \begin{pmatrix} 2 & 0 \\ 0 & 2 \end{pmatrix} = 2I$$

$$(A + A^{\frac{1}{2}}) \cdot A^{\frac{1}{2}} \begin{pmatrix} 2I \end{pmatrix} \cdot A^{\frac{1}{2}} \begin{pmatrix} 2I \end{pmatrix} A^{\frac{1}{2}}$$

$$= \begin{pmatrix} \frac{1}{2}I \end{pmatrix} \cdot A^{\frac{1}{2}} \begin{pmatrix} 2I \end{pmatrix} A^{\frac{1}{2}}$$

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$$= \begin{pmatrix} \frac{1}{1+\alpha^2} & 1 + \frac{\alpha}{1+\alpha^2} & -\alpha \end{pmatrix} \xrightarrow{1+\alpha^2} \begin{pmatrix} 1 + \alpha^2 & 1 + \alpha^2 & 1 \\ 1+\alpha^2 & 1+\alpha^2 & 1 + \alpha^2 \end{pmatrix}$$

$$= \begin{pmatrix} \frac{1}{1+\alpha^2} & \frac{1}{$$

Y.
$$P_{i}=(1,1), P_{2}=(3,2), P_{3}=(2,4)$$

$$P_{1}P_{3}=(2,1) ||P_{1}P_{3}||=\sqrt{2^{2}+1^{2}}=\sqrt{6}$$

$$P_{1}P_{3}=(1,3) ||P_{1}P_{3}||=\sqrt{1^{2}+3^{2}}=\sqrt{10}$$

$$\langle P_{1}P_{3}, P_{1}P_{3}\rangle = 2 \cdot |+1 \cdot 3$$

$$=5$$

$$Vinhed = Cos^{2}(\sqrt{5}\sqrt{10})$$

$$= \frac{11}{10}$$

$$S = \{\overline{V}_{i}, \overline{V}_{i}, ..., \overline{V}_{i}\}$$

$$S \in \mathbb{R}^{n}$$

$$\overline{U} = \overline{U}_{i}, \overline{V}_{i} = 0, i = j$$

$$\overline{U} \in \mathbb{R}^{n}$$

$$\overline{U} = \overline{U}_{i}, + \overline{U}_{i} = 0, i = j$$

$$\overline{U} = \overline{U}_{i}, + \overline{U}_{i} = 0, i \neq j$$

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