$$\langle m, p \rangle = \begin{bmatrix} \frac{9}{2} \\ \frac{3}{3} \end{bmatrix} \begin{bmatrix} \frac{3}{2} \\ \frac{1}{2} \end{bmatrix} = \begin{bmatrix} 1 & 2 & 7 \end{bmatrix} \begin{bmatrix} \frac{9}{2} \\ \frac{1}{2} \end{bmatrix} = \begin{bmatrix} 10 & 7 \\ -2 \end{bmatrix} = \begin{bmatrix} 5 \\ -2 \end{bmatrix} = \begin{bmatrix} 5 \\ -2 \end{bmatrix} + 1^2 = \sqrt{30}$$

$$\begin{cases} 2^{p} & \text{cip-ph} : \theta: \|m\| \|r\| \cos \theta = \langle m, pr \rangle = \sqrt{14} \times \sqrt{14} \times \cos \theta = 10 \\ = \sqrt{\theta} = \cos^{\frac{1}{2}} \times \sqrt{14} \times \sqrt{14} \times \cos \theta = 10 \\ = \sqrt{\theta} = \cos^{\frac{1}{2}} \times \sqrt{14} \times \sqrt{14} \times \cos \theta = 10 \\ = \sqrt{\theta} = \cos^{\frac{1}{2}} \times \sqrt{14} \times \sqrt{14} \times \cos \theta = 10 \\ = \sqrt{\theta} = \cos^{\frac{1}{2}} \times \sqrt{14} \times \sqrt{14} \times \cos \theta = 10 \\ = \sqrt{\theta} = \cos^{\frac{1}{2}} \times \sqrt{14} \times \sqrt{14} \times \cos \theta = 10 \\ = \sqrt{\theta} = \cos^{\frac{1}{2}} \times \sqrt{14} \times \sqrt{14} \times \cos \theta = 10 \\ = \sqrt{\theta} = \cos^{\frac{1}{2}} \times \sqrt{14} \times \sqrt{14} \times \cos \theta = 10 \\ = \sqrt{\theta} = \cos^{\frac{1}{2}} \times \sqrt{14} \times \sqrt{14} \times \cos \theta = 10 \\ = \sqrt{\theta} = \cos^{\frac{1}{2}} \times \sqrt{14} \times \sqrt{14} \times \cos \theta = 10 \\ = \sqrt{\theta} = \cos^{\frac{1}{2}} \times \sqrt{14} \times \sqrt{14} \times \cos \theta = 10 \\ = \sqrt{\theta} = \cos^{\frac{1}{2}} \times \sqrt{14} \times \sqrt{14} \times \cos \theta = 10 \\ = \sqrt{\theta} = \cos^{\frac{1}{2}} \times \sqrt{14} \times \sqrt{14} \times \cos \theta = 10 \\ = \sqrt{\theta} = \cos^{\frac{1}{2}} \times \sqrt{14} \times \sqrt{14} \times \cos \theta = 10 \\ = \sqrt{\theta} = \cos^{\frac{1}{2}} \times \sqrt{14} \times \sqrt{14} \times \cos \theta = 10 \\ = \sqrt{\theta} = \sqrt{14} \times \sqrt{14} \times \cos \theta = 10 \\ = \sqrt{\theta} = \sqrt{14} \times \sqrt{14} \times \cos \theta = 10 \\ = \sqrt{\theta} = \sqrt{14} \times \sqrt{14} \times \cos \theta = 10 \\ = \sqrt{\theta} = \sqrt{14} \times \sqrt{14} \times \cos \theta = 10 \\ = \sqrt{\theta} = \sqrt{14} \times \sqrt{14} \times \cos \theta = 10 \\ = \sqrt{\theta} = \sqrt{14} \times \sqrt{14} \times \cos \theta = 10 \\ = \sqrt{\theta} = \sqrt{14} \times \sqrt{14} \times \cos \theta = 10 \\ = \sqrt{\theta} = \sqrt{14} \times \sqrt{14} \times \cos \theta = 10 \\ = \sqrt{\theta} = \sqrt{14} \times \sqrt{14} \times \cos \theta = 10 \\ = \sqrt{\theta} = \sqrt{14} \times \sqrt{14} \times \cos \theta = 10 \\ = \sqrt{\theta} = \sqrt{14} \times \sqrt{14} \times \cos \theta = 10 \\ = \sqrt{\theta} = \sqrt{\theta} = 10 \\ =$$

A = [ a + b b - a] => ATA=I=AAT : [ : 4.1 dland  $\frac{1}{\sqrt{a+b}} \frac{1}{\sqrt{a+b}} \frac{1}{\sqrt{a+b}} = 7 (a+b) + (b-a) = +1 = |A|$   $\sqrt{(a+b)^2 + (a-b)^2 = 1}$   $\sqrt{(a+b)^2 + (a-b)^2 = 1}$ L> ATA => com (com) (0)  $A = \begin{bmatrix} 0 & b & 1 \\ a & 2 & 1 \\ -1 & 1 & C \end{bmatrix}, A = \begin{bmatrix} 0 & a & -1 \\ b & 2 & 1 \\ 1 & 1 & C \end{bmatrix}$   $\begin{bmatrix} 1 & 1 & C \\ 1 & 1 & C \end{bmatrix}, \text{ Spicks} \begin{bmatrix} b^2 + 4 + 1 \end{bmatrix} = 1$  $L_{3} + A = I = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix} = 7 \quad b^{2} + 1 = 1 = 7 \quad b = 0 \quad b^{2} = -4$ ( از فرف اندازه بردارهای سترن = ۱ (> a2+1=1=1a2=0) 15/ s/20 61 A-2I|=0  $L_{5}|2-2-5|=0=>2^{2}-32+2+15=0=>2^{2}-32+17$   $|3|=0=>2^{2}-32+17$   $|3|=0=>2^{2}-32+17$   $|3|=0=>2^{2}-32+17$ : Cotro de rie : 730 : 8-1 Non 20=1, B=-3, X=17 d

