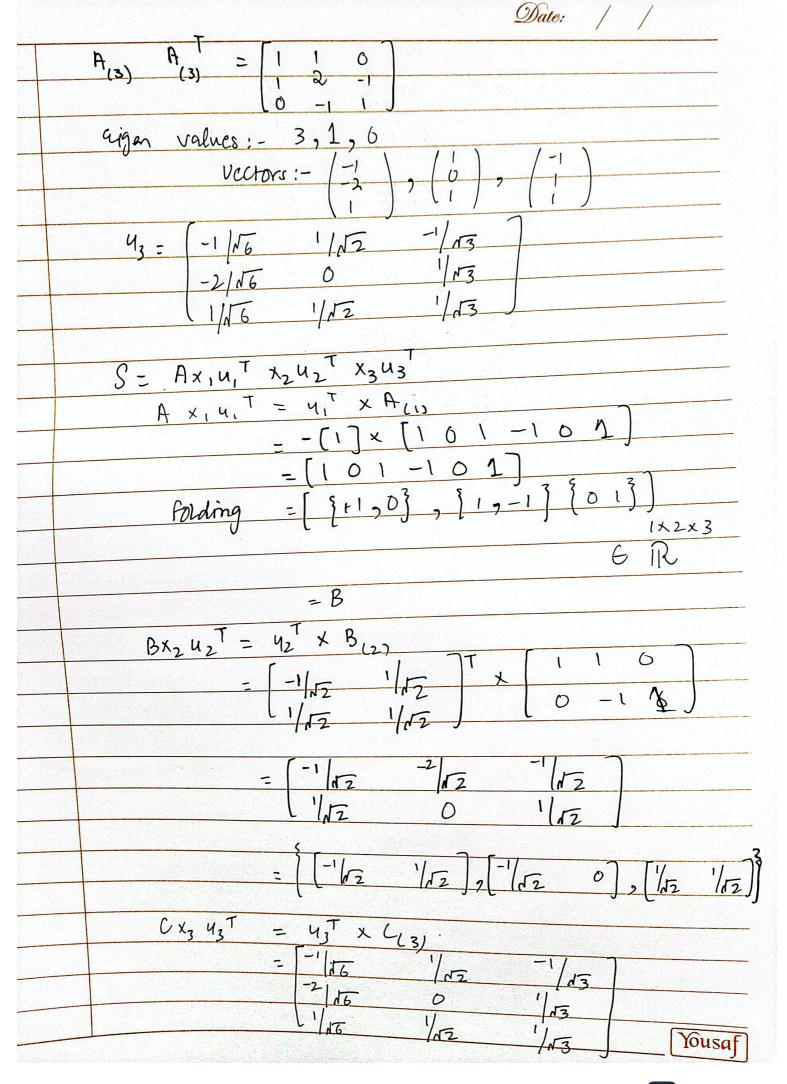
ray:	
	Question # 1:
	SVD AGR
	A(:,:,:) = [10]
	A(:,:,2) = [+1]
	A (:, :, 3) = [0 1]
	A = Sx, u, x2 u2 x3 u3 :
	s-score rensor driven: - 1x2x3
	$u_1 \rightarrow 1 \times 1$ $u_2 \rightarrow 2 \times 1$ $u_3 \Rightarrow 3 \times 3$
	compute y - unfolding by mode 1:-
	$A_{11} = \begin{bmatrix} 1 & 0 & 1 & -1 & 0.1 \end{bmatrix},$
	will meen to compute 4. =
	$A_{(1)} A_{(1)}^{\dagger} = \begin{bmatrix} 101 - 101 \end{bmatrix} \begin{bmatrix} 0 \\ \frac{1}{2} \end{bmatrix}$
	= [4]
	Eigan values = 4
	Vectors = [1]
	compute 42:-
	$\frac{11(2)^{-1}(0)^{-1}(0)^{-1}}{2igan values - 12 - 13 + 3 = 0}$
	$\lambda = 3, 1$
	$\lambda = 3 \rightarrow \text{ ev} := \begin{pmatrix} -1 \\ 1 \end{pmatrix} \rightarrow \begin{pmatrix} -1/\sqrt{2} \\ 1/\sqrt{2} \end{pmatrix}$
	$\lambda = 1 \longrightarrow EV :- (1) \rightarrow (1/32)$
	$u_2 = \left(-\frac{1}{\sqrt{2}}\right)$
	1/12 /12
	compute $U_5 = A_{(3)} = \begin{bmatrix} 1 & 0 \\ 1 & -1 \end{bmatrix}$
	Yousaf



$$= \begin{bmatrix} -1 & \sqrt{2} & \sqrt{2} \\ -1 & \sqrt{2} & 0 \\ \sqrt{2} & \sqrt{2} \end{bmatrix}$$

$$S_1 = \begin{bmatrix} -\sqrt{3} & 0 \end{bmatrix}$$

$$S_2 = \begin{bmatrix} 0 & 1 \end{bmatrix}$$

$$S_3 = \begin{bmatrix} 0 & 0 \end{bmatrix}$$