

۶,	40t product
	to find doe produce of it and other Hastor
	See u as a finear transformation result A= [Ux, Uy] A= [Ux, Uy]
	A = [Ux, Uy]
	- t. T. T. T. Cby symetric, i transform to Ux, j transform to Uy)
	A X' means transform all vectors onto the basis of Il
	performing the linear transformation is the same as taking a doe produce with it
6.	basis transformation
	novinal: $7 \frac{1}{1} \frac$
	$\frac{\text{fransform}}{\text{back}} \qquad \qquad \overrightarrow{X} = \begin{bmatrix} a_1 & b_1 \\ a_2 & b_2 \end{bmatrix} = \begin{bmatrix} b_1 & b_2 \\ a_3 & b_2 \end{bmatrix}$
	Show changes in normal basis reflected on the transformed basis
	change: 7 C1 C3 reflece 2 2 b2 7 C2 C4 2 A2 b2
7.	eigen vector: i such that just expand after linear transformation
13	If transformation have lots of eigenvectors: eg. 13 11 has aigenvectors [1]. [0
	Use eigenvectors to change basis matrix: 1 0] -> [0 1]
	Thomas reflect on the changed basis: 71-17-173171-17
	result must be diagonal mortrix with eigen volue on thagonal since basis vector get
	scaled dunk; transformation; [3 0]
	diagonalize = A = X / X - 1 (X eigenvector basis, A extend rate (eigenvalue))
	transform from eigen basis back to normal base, apply change on eigenbasis, transform back
	A: change on normal basis, A: change reflect on eigenboisis eigenbasi