Appainment Notes Work to do	
16 July 2020	AKSHATHA.YE
	4AL18EC005
· Coursera:	TAMPACES!
Summation Convention and the	enivise
Summation Convention and the Symmetry of the dot proc	dúction
(ab) = = a b + a = b + + 4 a = b = 1	[6 0]
$(ab)_{23} = a_{21}b_{13} + a_{22}b_{23} + \dots + a_{2n}b_{n3}$ $ab_{jk} = \sum a_{ij}b_{ik} = a_{ij}b_{ik}$	(1 01)
abjk = Easibjk = aribjk	
AB=C TA'A	
Cik = ay bjk	
o or	8AX
UV	The state of the s
$\begin{bmatrix} v_1 \\ v_2 \end{bmatrix} \begin{bmatrix} v_1 \\ v_2 \\ \vdots \\ v_n \end{bmatrix} \begin{bmatrix} v_1 \\ v_2 \\ \vdots \\ v_n \end{bmatrix}$	A'TA la Contraction
L J L J Lin	
U; Vi	0 1 2 4
00 . 16	<u>C 1-11</u>
· Changing of basis: Bear's basis vectors 3 1 1	E 19 March.
Bear's basis vectors 3 1	i my fame.
[31][3/2]. [5]	
3 1 3/2 5	0 1 1
Bear's basis Bear's my	00
in my code vector vector	14 (3)
B-1 1/2 [-13] [5] = 5 [-1/2] + 2 [3] =	12 [2]
ny basis in bean's world.	vector.
Anxn	
B-RB = RB ((a)(a2) (a3))	
$B^{T}RB = RB \qquad (a_1)(a_2) \dots (a_3)$ $A_{ij} = A_{ji} \qquad (a_1, a_{j=0} = 0 \text{ i } \neq j)$	A ATE AT
$a_i, a_j \in U$ $a_i, a_j \in U$ $1 = i$	ATA = I



