Leve we have a martix A responsable Us transpose: Let $T(A) = A^T$, A = 2x2i) whey is Thineer? What's 7-1? - What are he abstract properties that a hier opforter satisflies? mathappais when Tactson Sum
how matros multiple of T(A+B) = (A+B) T= AT+BT=T(A)+T(B) T(CA) = (CA) = cAT = cT(A)
What don it is a hencer operator. What does transpose do? [what is its inverses] - talos Collums [3], and flys it into row [mis

adque apply he goodhari ace again? 2 if flep it from Tow [m] BoelctoColum [§] : applying transformation twice
Twe come Back to the original T2= I= T= T Woods T-17 2) write down the matrix of I in
Estandard Bosis J $V_1 = \begin{bmatrix} 1 & 0 \\ 6 & 0 \end{bmatrix} \cdot V_2 = \begin{bmatrix} 0 & 1 \\ 0 & 0 \end{bmatrix} V_3 = \begin{bmatrix} 0 & 0 \\ 1 & 0 \end{bmatrix} \cdot V_4 = \begin{bmatrix} 0 & 0 \\ 0 & 1 \end{bmatrix}$ The way we campute the matrix, we Dost Caupiter What I does to each of the bossio clawort. TV= V4 /. Encode his into a matrix $V_1 = V_1$ Tv2= 1/3 (V3= V2

(Hw7v, is appressed os about Liveer Combination of the Bosis Colement) 97 multiply Top, we get Bolton $\begin{bmatrix} 7 & 1 & 3 \\ 2 & 4 \end{bmatrix} \Rightarrow \begin{bmatrix} 3 \\ 2 \\ 1 \end{bmatrix}$ Now Lots compute Tinbeses, Wi, we was, wy $W_{1} = \begin{bmatrix} 10 \\ 00 \end{bmatrix} W_{2} = \begin{bmatrix} 00 \\ 01 \end{bmatrix} W_{3} = \begin{bmatrix} 01 \\ 10 \end{bmatrix} w_{4} = \begin{bmatrix} 01 \\ 70 \end{bmatrix}$

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