UTAustinX UT.5.05x
Linear Algebra - Foundations to Frontiers

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E1.2.7 Sample Question 7

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Calculator

7. Compute

(a) $2 \begin{pmatrix} 3 \\ 1 \\ 2 \end{pmatrix} =$

(b) $\begin{pmatrix} 6 \\ 2 \\ 4 \end{pmatrix} + (-1) \begin{pmatrix} -1 \\ 2 \\ 1 \end{pmatrix} =$

(c) $\begin{pmatrix} 3 & -1 \\ 1 & 2 \\ 2 & 1 \end{pmatrix} \begin{pmatrix} 2 \\ -1 \end{pmatrix} =$

(d) $\begin{pmatrix} 3 \\ 1 \\ 2 \end{pmatrix}^{T} \begin{pmatrix} -1 \\ 1 \\ 2 \end{pmatrix} =$

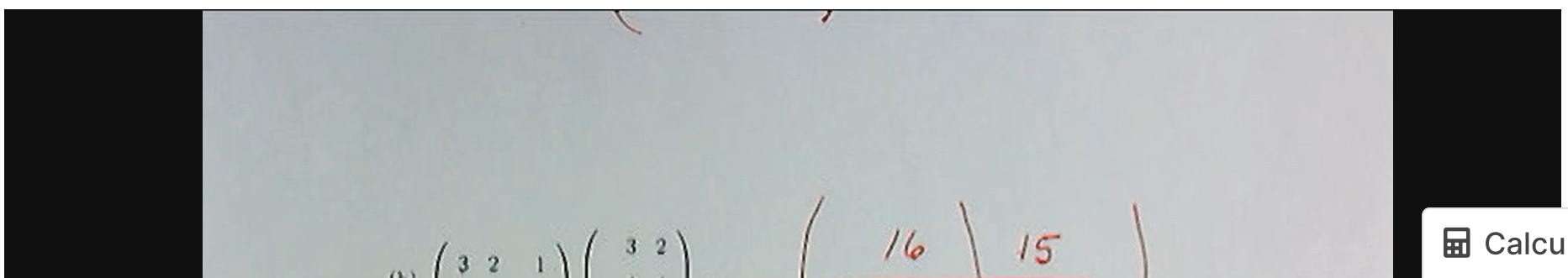(e) $\begin{pmatrix} -1 \\ 2 \\ 1 \end{pmatrix}^{T} \begin{pmatrix} -1 \\ 1 \\ 2 \end{pmatrix} =$

⊞ Calculator

(f) $\begin{pmatrix} 3 & -1 \\ 1 & 2 \\ 2 & 1 \end{pmatrix}^T \begin{pmatrix} -1 \\ 1 \\ 2 \end{pmatrix} =$
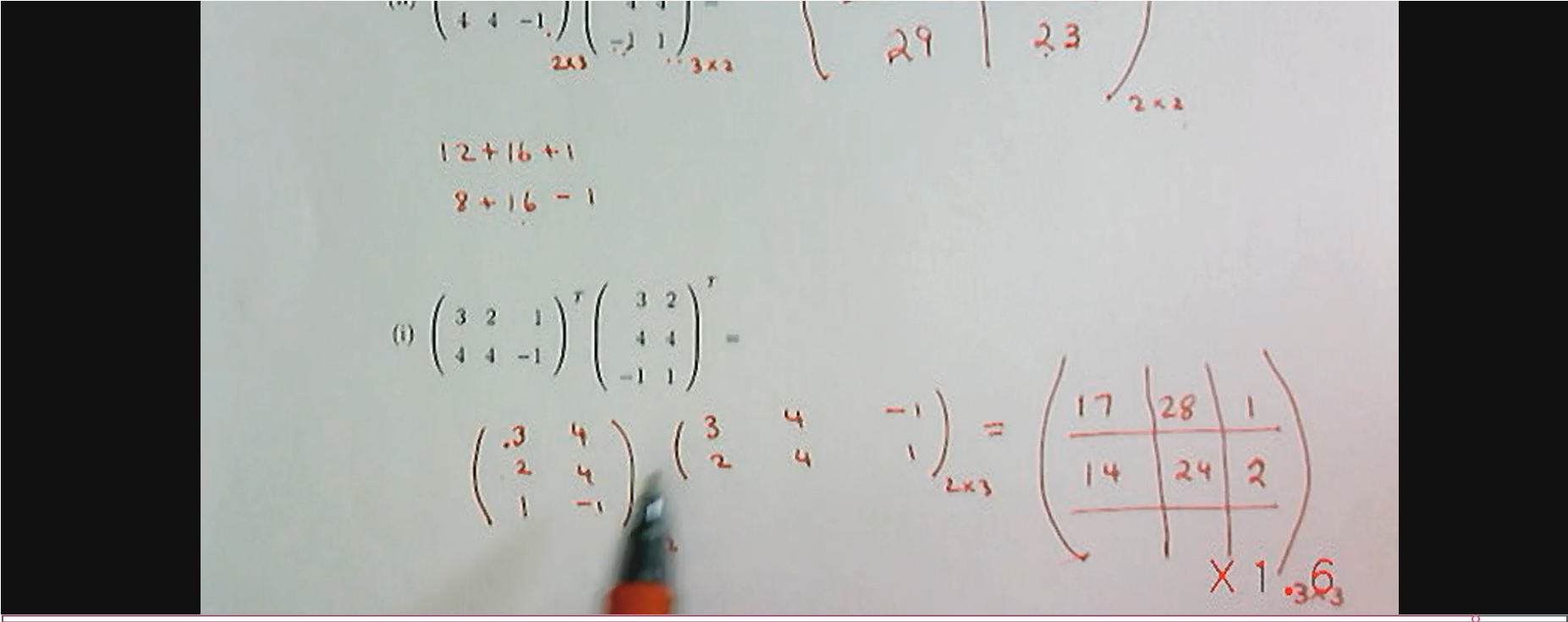

(g) $\left\| \begin{pmatrix} 3 \\ 4 \end{pmatrix} \right\|_2 =$

(h) $\begin{pmatrix} 3 & 2 & 1 \\ 4 & 4 & -1 \end{pmatrix} \begin{pmatrix} 3 & 2 \\ 4 & 4 \\ -1 & 1 \end{pmatrix} =$

(i) $\begin{pmatrix} 3 & 2 & 1 \\ 4 & 4 & -1 \end{pmatrix}^T \begin{pmatrix} 3 & 2 \\ 4 & 4 \\ -1 & 1 \end{pmatrix}^T =$

Answer Video

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