

	Let u and v be 3-dimensional vectors, where specifically $u=\begin{bmatrix}3\\-5\\4\end{bmatrix}$ and $v=\begin{bmatrix}1\\2\\5\end{bmatrix}$ What is u^Tv ?
	1x3 dimensional matrix, and v can also be seen as a $3x1$ matrix. The answer you want can be obtained by taking the matrix product of u^T and v .) Do not add brackets to your answer.
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	Let A and B be 3x3 (square) matrices. Which of the following
	\checkmark Correct We add matrices element-wise. So, this must be true. If $C = A*B$, then C is a 6x6 matrix. If v is a 3 dimensional vector, then $A*B*v$ is a 3 dimensional vector.
4	✓ correct Since A and B are both 3x3 matrices, $A*B$ is 3x3 matrix. Thus, $(A*B)*v$ is a 3x3 matrix times a 3×1 matrix (since v is a 3 dimensional vector, and thus also a 3x1 matrix), and the result gives a 3x1 vector. $A*B*A=B*A*B$