elcome troduction eview	Congratulations! Xqupassed! Grade received 801%, To pass 80% or higher	Go to next item	
odel and Cost Function rameter Learning	Submit your assignment Linear Algebra		Try again
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Reading: Lecture Slides 10 min	1. Let two matrices be $_{80\%}$ or higher $A=egin{bmatrix}1&-4\\-2&1\end{bmatrix}, \qquad B=egin{bmatrix}0&3\\5&8\end{bmatrix}$	80% _{1 point}	We keep your highest score
Practice Quiz: Linear Algebra 5 questions	$\begin{bmatrix} -2 & 1 \end{bmatrix}$, $\begin{bmatrix} b - \begin{bmatrix} 5 & 8 \end{bmatrix} \end{bmatrix}$ What is A like? $\begin{bmatrix} \Box \end{bmatrix}$ Dislike $\begin{bmatrix} \Box \end{bmatrix}$ Report an issue		
	$\bigcirc \begin{bmatrix} 1 & 1 \\ -3 & -7 \end{bmatrix}$		
	$ \begin{bmatrix} 1 & 7 \\ 7 & 9 \end{bmatrix} $		
	$ \begin{bmatrix} 7 & 9 \end{bmatrix} $ $ \bigcirc \begin{bmatrix} 1 & -7 \\ -7 & 7 \end{bmatrix} $		
	⊘ Correct		
	Let $x=egin{bmatrix} 2 \ 7 \ 4 \ 1 \end{bmatrix}$	1/1 point	
	$\begin{bmatrix} 4 \\ 1 \end{bmatrix}$ What is $3*x$?		
	$\bigcirc \ \begin{bmatrix} 6 & 21 & 12 & 3 \end{bmatrix}$		
	$\bigcirc \ \left[\frac{2}{3} \frac{7}{3} \frac{4}{3} \frac{1}{3} \right]$		
	$ \bigcirc \begin{bmatrix} 6 \\ 21 \\ 12 \end{bmatrix} $		
	$ \begin{bmatrix} \frac{2}{3} \\ \frac{7}{3} \\ \frac{4}{3} \\ \frac{1}{3} \end{bmatrix} $		
	✓ Correct		
	To multiply the vector x by 3, take each element of x and multiply that element by 3.		
	3. Let u be a 3-dimensional vector, where specifically	1/1 point	
	$u = egin{bmatrix} 8 \ 1 \ 4 \end{bmatrix}$		
	What is u^{T} ?		
	$ \bigcirc \begin{bmatrix} 4 \\ 1 \\ 8 \end{bmatrix} $		
	$ \bigcirc \begin{bmatrix} 8 \\ 1 \\ 4 \end{bmatrix} $		
	[4](a)(b)(a)(b)(c)(d)(d)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)<		
	$\bigcirc [4 \ 1 \ 8]$		
	⊘ Correct		
	4. Let u and v be 3-dimensional vectors, where specifically $u = \begin{bmatrix} 3 \\ -5 \\ 4 \end{bmatrix}$	1/1 point	
	$\left[\begin{array}{c}4\end{array} ight]$ and		
	$v = egin{bmatrix} 1 \ 2 \ 5 \end{bmatrix}$		
	What is $oldsymbol{u}^T oldsymbol{v}$?		
	(Hint: $oldsymbol{u}^T$ is a 1x3 dimensional matrix, and v can also be seen as a 3x1		
	matrix. The answer you want can be obtained by taking $egin{align*} ext{the matrix product of } u^T ext{ and } v. \end{pmatrix}$ Do not add brackets to your answer.		
	the matrix product of u^- and v .) Do not add brackets to your answer.		
	13✓ Correct		
	5. Let A and B be 3x3 (square) matrices. Which of the following	0 / 1 point	
	must necessarily hold true? Check all that apply.	v, = F · · · · ·	
	igcap A*B=B*A		
	$\square \qquad \qquad If \ C = A * B \text{, then C is a 6x6 matrix.}$		
	lacksquare If A is the 3x3 identity matrix, then $A*B=B*A$		
	\bigcirc Correct Even though matrix multiplication is not commutative in general ($A*B \neq B*A$ for general matrices $A*B$) for the special case where $A*B*B*A*B*A*B*B*A*B*B*A*B*B*A*B*B*A*B*B*A*B*B*A*B*B*A*B*B*B*A*B*B*B*A*B*B*B*A*B$	al	
	matrices A,B), for the special case where $A=I$, we have $A*B=I*B=B$, and also $B*A=B*I=B$. So, $A*B=B*A$.		
	$\square \qquad \qquad A+B=B+A$		

You didn't select all the correct answers