Practice Quiz, 5 questions

Congratulations! You passed!

Next Item



1/1 point

In this quiz, you will practice multiplying together matrices which are not square.

Calculate the product:

$$\begin{bmatrix}2&4&5&6\end{bmatrix}\begin{bmatrix}1\3\2\1\end{bmatrix}$$





30

Correct

This is another way to define the scalar product of two vectors!





1/1 point

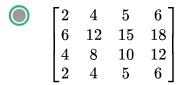
2.

Non-square matrix multiplication

Practice Quiz, 5 questions

$$\begin{bmatrix} 3 \\ 2 \\ 1 \end{bmatrix} \begin{bmatrix} 2 & 4 & 5 & 6 \end{bmatrix}$$

30



Correct

Well done.

$$\begin{bmatrix}
2 & 4 & 5 & 6 \\
6 & 15 & 12 & 18 \\
8 & 4 & 12 & 10 \\
2 & 4 & 6 & 5
\end{bmatrix}$$

32



1/1 point

3.

Calculate the product:

$$\begin{bmatrix} 1 & 2 & 3 \\ 4 & 0 & 1 \end{bmatrix} \begin{bmatrix} 1 & 1 & 0 \\ 0 & 1 & 1 \\ 1 & 0 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 3 & 5 & 4 \\ 4 & 1 & 5 \end{bmatrix}$$

$$\begin{bmatrix}
5 & 4 & 3 \\
1 & 4 & 5
\end{bmatrix}$$

Correct

Well done!

5/5 points (100%)



1/1 point

4

Calculate the product:

$$\begin{bmatrix} 2 & -1 \\ 0 & 3 \\ 1 & 0 \end{bmatrix} \begin{bmatrix} 0 & 1 & 4 & -1 \\ -2 & 0 & 0 & 2 \end{bmatrix}$$

$$\begin{bmatrix} 2 & 2 & -8 & 4 \\ -6 & 0 & 0 & -6 \\ 0 & -1 & -1 & -4 \end{bmatrix}$$

$$\begin{bmatrix}
2 & 2 & 8 & -4 \\
-6 & 0 & 0 & 6 \\
0 & 1 & 4 & -1
\end{bmatrix}$$

Correct

Well done!

$$\begin{bmatrix} 2 & -2 & 8 & -4 \\ 6 & 0 & 0 & 0 \\ 6 & -1 & 4 & 1 \end{bmatrix}$$

$$\begin{bmatrix} -2 & 2 & 8 & 4 \\ -6 & 0 & 6 & 6 \\ 0 & 4 & 4 & 1 \end{bmatrix}$$



1/1 point

5.

Calculate the product:

$$\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \end{bmatrix}$$

$$\begin{bmatrix} 5 & 1 & 6 \\ 4 & 3 & 2 \end{bmatrix}$$

Correct

Well done!

