## Answer on Question \#77016 - Math - Calculus

$$
\begin{aligned}
& A=8 l+12 j-8 k \\
& B=9 l-3 k-2 k \\
& C=8 l+17 j-7 k
\end{aligned}
$$

Find

## Question

1. 

$$
A \times B=\left|\begin{array}{ccc}
l & j & k \\
8 & 12 & -8 \\
9 & -3 & -2
\end{array}\right|=(-24-24) l-(-16+72) j+(-24-108) k=-48 l-56 j-132 k
$$

## Question

2. 

$$
\begin{aligned}
C \times[A \times B]=\left|\begin{array}{ccc}
l & j & k \\
8 & 17 & -7 \\
-48 & -56 & -132
\end{array}\right| & =(-2244-392) l-(-1056-336) j+(-448+816) k= \\
& =-2636 l+1392 j+368 k
\end{aligned}
$$

## Question

3. 

$$
D \times[C \times(A \times B)]
$$

It is impossible to compute because $D$ was not given.

## Question

4. 

$$
A\{D \times(A \times B)\}
$$

It is impossible to compute because $D$ was not given.

## Question

5. 

$$
C \cdot D
$$

It is impossible to compute because $D$ was not given.

## Question

6. 

$$
A \cdot B=8 \cdot 9-12 \cdot 3+8 \cdot 2=52
$$

## Question

7. 

$|D|$
It is impossible to compute because $D$ was not given.

## Question

8. 

$$
|A \times D|
$$

It is impossible to compute because $D$ was not given.

## Question

9. 

$$
|D \times B|
$$

It is impossible to compute because $D$ was not given.

## Question

10. 

$$
(A \times B) \cdot(C \times D)
$$

It is impossible to compute because $D$ was not given.

