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Cool! I'am really happy

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so many fake sites. this is the first one which worked! Many thanks

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CHAPTER 1
FUNDAMENTAL CONCEPTS: VECTORS

- 1.1 (a) $\vec{A} + \vec{B} = (i + j) + (j + k) = i + 2j + k$
 $|\vec{A} + \vec{B}| = \sqrt{1 + 4 + 1} = \sqrt{6}$
- (b) $3\vec{A} - 2\vec{B} = 3(i + j) - 2(j + k) = 3i + j - 2k$
- (c) $\vec{A} \cdot \vec{B} = (1)(1) + (1)(1) + (0)(0) = 1$
- (d) $\vec{A} \times \vec{B} = \begin{vmatrix} i & j & k \\ 1 & 1 & 0 \\ 0 & 1 & 1 \end{vmatrix} = i(1 \cdot 1 - 0 \cdot 1) + j(1 \cdot 0 - 1 \cdot 1) + k(1 \cdot 1 - 0 \cdot 1) = i - j + k$
 $|\vec{A} \times \vec{B}| = \sqrt{1 + 1 + 1} = \sqrt{3}$
- 1.2 (a) $\vec{A} \cdot (\vec{B} + \vec{C}) = (2i + j) \cdot (i + j + k) = (2)(1) + (1)(1) + (0)(1) = 3$
 $(\vec{A} \cdot \vec{B}) + (\vec{A} \cdot \vec{C}) = (2i + j) \cdot i + (2i + j) \cdot (j + k) = (2)(1) + (1)(0) + (0)(1) + (2)(1) + (1)(1) + (0)(1) = 3$
- (b) $\vec{A} \cdot (\vec{B} \times \vec{C}) = \begin{vmatrix} 2 & 1 & 0 \\ 0 & 1 & 1 \\ 1 & 0 & 1 \end{vmatrix} = 2(-1) - 1(1) = -3$
 $(\vec{A} \cdot \vec{B}) \vec{C} - \vec{A}(\vec{B} \cdot \vec{C}) = -3$
- (c) $\vec{A} \cdot (\vec{B} \times \vec{C}) - (\vec{A} \cdot \vec{B})(\vec{C} \cdot \vec{A}) = -3 - (2)(1) = -5$
 $(\vec{A} \cdot \vec{B}) \vec{C} - \vec{A}(\vec{B} \cdot \vec{C}) = -3 - (2)(1) = -5$

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