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CHAPTER 1 FUNDAMENTAL CONCEPTS: VECTORS

- 1.1 (a) $\vec{a} + \vec{b} = (i + j) + (j + k) = i + 2j + k$
 $|\vec{a} + \vec{b}| = (1 + 4 + 1)^{1/2} = \sqrt{6}$
- (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) $\vec{a} \times \vec{b} = \begin{vmatrix} i & j & k \\ 1 & 1 & 0 \\ 0 & 1 & 1 \end{vmatrix} = i(1 \cdot 1 - 0 \cdot 1) + j(1 \cdot 0 - 1 \cdot 1) + k(1 \cdot 1 - 0 \cdot 1) = i - j + k$
 $|\vec{a} \times \vec{b}| = (1 + 1 + 1)^{1/2} = \sqrt{3}$
- 1.2 (a) $\vec{a} \cdot (\vec{b} + \vec{c}) = (2i + j) \cdot (i + j + k) = (2)(1) + (1)(1) + (0)(1) = 3$
 $(\vec{a} \cdot \vec{b}) \cdot \vec{c} = (3i + j) \cdot k = (3)(0) + (1)(0) + (0)(1) = 0$
- (b) $\vec{a} \cdot (\vec{b} \times \vec{c}) = \begin{vmatrix} 2 & 1 & 0 \\ 1 & 1 & 0 \\ 0 & 1 & 1 \end{vmatrix} = 2(-1) - 0 = -2$
 $(\vec{a} \times \vec{b}) \cdot \vec{c} = 2(\vec{b} \times \vec{c}) \cdot \vec{c} = 2(0) = 0$
- (c) $\vec{a} \cdot (\vec{b} \times \vec{c}) - (\vec{a} \cdot \vec{b})(\vec{a} \cdot \vec{c}) = 2(1) - (2)(3) = 2 - 6 = -4$
 $(\vec{a} \times \vec{b}) \cdot \vec{c} - \vec{c} \cdot (\vec{a} \times \vec{b}) = -[(\vec{c} \cdot \vec{b})(\vec{a} \cdot \vec{c}) - (\vec{c} \cdot \vec{a})(\vec{b} \cdot \vec{c})]$
 $= -[(1)(2) - (1)(3)] = -[2 - 3] = 1$

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