P. 2-1 (a) $\bar{a}_A = \dfrac{\bar{A}}{A} = \dfrac{\bar{a}_x + \bar{a}_y 2 - \bar{a}_z 3}{\sqrt{1^2 + 2^2 + (-3)^2}} = \dfrac{1}{\sqrt{14}}(\bar{a}_x + \bar{a}_y 2 - \bar{a}_z 3)$

(b) $|\bar{A} - \bar{B}| = |\bar{a}_x + \bar{a}_y 6 - \bar{a}_z 4| = \sqrt{1^2 + 6^2 + 4^2} = \sqrt{53}$

(c) $\bar{A} \cdot \bar{B} = 0 + 2(-4) + (-3) = -11$

(d) $\theta_{AB} = \cos^{-1}(\bar{A} \cdot \bar{B}/AB) = \cos^{-1}(-11/\sqrt{14}\sqrt{17}) = 135.5°$

(e) $\bar{A} \cdot \bar{a}_C = \bar{A} \cdot \dfrac{\bar{C}}{C} = \bar{A} \cdot \dfrac{1}{\sqrt{29}}(\bar{a}_x 5 - \bar{a}_z 2) = \dfrac{11}{\sqrt{29}}$

(f) $\bar{A} \times \bar{C} = -\bar{a}_x 4 - \bar{a}_y 13 - \bar{a}_z 10$

(g) $\bar{A} \cdot (\bar{B} \times \bar{C}) = (\bar{A} \times \bar{B}) \cdot \bar{C} = -42$

(h) $(\bar{A} \times \bar{B}) \times \bar{C} = \bar{B}(\bar{A} \cdot \bar{C}) - \bar{A}(\bar{C} \cdot \bar{B}) = \bar{a}_x 2 - \bar{a}_y 40 + \bar{a}_z 5$
$\bar{A} \times (\bar{B} \times \bar{C}) = \bar{B}(\bar{A} \cdot \bar{C}) - \bar{C}(\bar{A} \cdot \bar{B}) = \bar{a}_x 55 + \bar{a}_y 44 - \bar{a}_z 11$

P. 2-2 Position vectors of the three corners:
$$\overrightarrow{OP_1} = \bar{a}_y - \bar{a}_z 2, \quad \overrightarrow{OP_2} = \bar{a}_x 4 - \bar{a}_y - \bar{a}_z 3, \quad \overrightarrow{OP_3} = \bar{a}_x 6 + \bar{a}_y 2 + \bar{a}_z 5$$
Vectors representing the three sides of the triangle:
$$\overrightarrow{P_1 P_2} = \overrightarrow{OP_2} - \overrightarrow{OP_1} = \bar{a}_x 4 - \bar{a}_z, \quad \overrightarrow{P_2 P_3} = \bar{a}_x 2 + \bar{a}_y + \bar{a}_z 8, \quad \overrightarrow{P_3 P_1} = -\bar{a}_x 6 - \bar{a}_y - \bar{a}_z$$

(a) $\overrightarrow{P_1 P_2} \cdot \overrightarrow{P_2 P_3} = 0$. $\quad \therefore \triangle P_1 P_2 P_3$ is a right triangle.

(b) Area of triangle $= \dfrac{1}{2} |\overrightarrow{P_1 P_2} \times \overrightarrow{P_2 P_3}| = 17.1$

P. 2-3
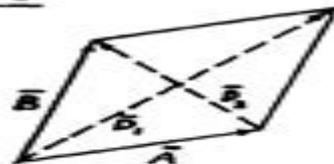
$\bar{D}_1 = \bar{B} + \bar{A}, \quad \bar{D}_2 = \bar{B} - \bar{A}$

$\bar{D}_1 \cdot \bar{D}_2 = (\bar{B} + \bar{A}) \cdot (\bar{B} - \bar{A})$
$\qquad = \bar{B} \cdot \bar{B} - \bar{A} \cdot \bar{A} = 0$

$\therefore \bar{D}_1 \perp \bar{D}_2$

P. 2-4 From $\bar{A} \cdot \bar{B} = \bar{A} \cdot \bar{C}$, we have $\bar{A} \cdot (\bar{B} - \bar{C}) = 0.$ (1)
From $\bar{A} \times \bar{B} = \bar{A} \times \bar{C}$, we have $\bar{A} \times (\bar{B} - \bar{C}) = 0.$ (2)
(1) implies $\bar{A} \perp (\bar{B} - \bar{C})$ and (2) implies $\bar{A} \parallel (\bar{B} - \bar{C})$. Since $\bar{A}$ is not a null vector, (1) and (2) cannot hold at the same time unless $(\bar{B} - \bar{C})$ is a null vector. Thus, $\bar{B} - \bar{C} = 0$ or $\bar{B} = \bar{C}$.

P. 2-5 $\bar{a}_A \cdot \bar{a}_B = \cos(\alpha - \beta) = \cos\alpha \cos\beta + \sin\alpha \sin\beta.$

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