Chapter 2

$$\underline{P.2-1} \quad (a) \quad \bar{a}_{A} = \frac{\bar{A}_{A}}{A} = \frac{\bar{a}_{A} + \bar{a}_{A} - \bar{a}_{A}}{\sqrt{1^{2} + 2^{2} + (-3)^{2}}} = \frac{1}{\sqrt{14}} (\bar{a}_{A} + \bar{a}_{A} - \bar{a}_{A} - \bar{a}_{A})$$

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

(9)
$$\vec{A} \cdot (\vec{B} * \vec{c}) = (\vec{A} * \vec{B}) \cdot \vec{c} = -42$$

(h)
$$(\overline{A} \circ \overline{B}) \circ \overline{c} = \overline{B}(\overline{A} \cdot \overline{c}) - \overline{A}(\overline{c} \cdot \overline{B}) = \overline{a}_{x}^{2} - \overline{a}_{y}^{40} + \overline{a}_{z}^{5}$$

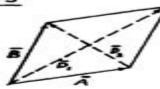
 $\overline{A} \circ (\overline{B} \circ \overline{c}) = \overline{B}(\overline{A} \cdot \overline{c}) - \overline{C}(\overline{A} \cdot \overline{B}) = \overline{a}_{z}^{35} + \overline{a}_{y}^{44} - \overline{a}_{z}^{11}$

P.2-2 Position vectors of the three corners:

$$\overrightarrow{OP}_1 = \overrightarrow{a}_y - \overrightarrow{a}_x 2$$
, $\overrightarrow{OP}_2 = \overrightarrow{a}_x 4 - \overrightarrow{a}_y - \overrightarrow{a}_x 3$, $\overrightarrow{OP}_3 = \overrightarrow{a}_x 6 + \overrightarrow{a}_y 2 + \overrightarrow{a}_x 5$
Vectors representing the three sides of the triangle:
 $\overrightarrow{P_1P_2} = \overrightarrow{OP_3} - \overrightarrow{OP_3} = \overrightarrow{a}_x 4 - \overrightarrow{a}_x$, $\overrightarrow{P_1P_3} = \overrightarrow{a}_x 2 + \overrightarrow{a}_y + \overrightarrow{a}_x 2$, $\overrightarrow{P_1P_3} = -\overrightarrow{a}_x 6 - \overrightarrow{a}_y - \overrightarrow{a}_y$

(a) P.P. P.P. = 0. . . AP.P.P. is a right triangle.

P. 2-3



$$\overline{D}_{1} = \overline{B} + \overline{A}, \quad \overline{D}_{2} = \overline{B} - \overline{A}$$

$$\overline{D}_{1} \cdot \overline{D}_{2} = (\overline{B} + \overline{A}) \cdot (\overline{B} - \overline{A})$$

$$= \overline{B} \cdot \overline{B} - \overline{A} \cdot \overline{A} = 0$$

$$\vdots \quad \overline{D}_{1} \perp \overline{D}_{2}$$

P.2-4 From $\overline{A} \cdot \overline{B} = \overline{A} \cdot \overline{C}$, we have $\overline{A} \cdot (\overline{B} - \overline{C}) = 0$. (1)

From $\overline{A} \times \overline{B} = \overline{A} \times \overline{C}$, we have $\overline{A} \times (\overline{B} - \overline{C}) = 0$. (2)

(1) implies $\overline{A} \perp (\overline{B} - \overline{C})$ and (2) implies $\overline{A} \parallel (\overline{B} - \overline{C})$. Since \overline{A} is

(1) implies $A \perp (B-\overline{C})$ and (2) implies $A \parallel (B-\overline{C})$. Since A is not a null vector, (1) and (2) cannot hold at the same time unless $(B-\overline{C})$ is a null vector. Thus, $B-\overline{C}=0$ or $B-\overline{C}$.

P. 2-5 . a - cos (4- B) - cos 4 cos B + sin 4 sin B.

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Paul Lorrain

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