## Chapter 2

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

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

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

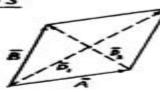
(h) 
$$(\overline{A} \times \overline{B}) \times \overline{c} = \overline{B}(\overline{A} \cdot \overline{c}) - \overline{A}(\overline{c} \cdot \overline{B}) = \overline{a}_x^2 - \overline{a}_y^{40} + \overline{a}_x^5$$
  
 $\overline{A} \times (\overline{B} \times \overline{c}) = \overline{B}(\overline{A} \cdot \overline{c}) - \overline{C}(\overline{A} \cdot \overline{B}) = \overline{a}_x^{23} + \overline{a}_y^{44} - \overline{a}_x^{11}$ 

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:  
 $\overrightarrow{P_1P_2} = \overrightarrow{OP_3} - \overrightarrow{OP_1} = \overrightarrow{a}_x 4 - \overrightarrow{a}_x$ ,  $\overrightarrow{P_1P_2} = \overrightarrow{a}_x 2 + \overrightarrow{a}_y + \overrightarrow{a}_x 2$ ,  $\overrightarrow{P_1P_2} = -\overrightarrow{a}_x 6 - \overrightarrow{a}_y - \overrightarrow{a}_y$   
(a)  $\overrightarrow{P_1P_2} \cdot \overrightarrow{P_1P_3} = O$ . ...  $\overrightarrow{AP_1P_2P_2}$  is a right triangle.

(b) Area of triangle = + | P.P. x P.P. | = 17.1

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

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

# **Field And Wave Electromagnetics Solution Manual**

**E Durkheim** 

## **Field And Wave Electromagnetics Solution Manual:**

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