

## Chapter 2

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

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

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

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

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

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

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

(h)  $(\vec{A} \times \vec{B}) \times \vec{C} = \vec{B}(\vec{A} \cdot \vec{C}) - \vec{A}(\vec{C} \cdot \vec{B}) = \vec{a}_x 2 - \vec{a}_y 40 + \vec{a}_z 5$   
 $\vec{A} \times (\vec{B} \times \vec{C}) = \vec{B}(\vec{A} \cdot \vec{C}) - \vec{C}(\vec{A} \cdot \vec{B}) = \vec{a}_x 35 + \vec{a}_y 44 - \vec{a}_z 11$

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

$$\vec{OP}_1 = \vec{a}_y - \vec{a}_z 2, \quad \vec{OP}_2 = \vec{a}_x 4 - \vec{a}_y - \vec{a}_z 3, \quad \vec{OP}_3 = \vec{a}_x 6 + \vec{a}_y 2 + \vec{a}_z 5$$

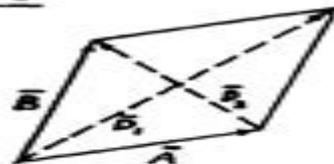
Vectors representing the three sides of the triangle:

$$\vec{P}_1\vec{P}_2 = \vec{OP}_2 - \vec{OP}_1 = \vec{a}_x 4 - \vec{a}_z, \quad \vec{P}_2\vec{P}_3 = \vec{a}_x 2 + \vec{a}_y + \vec{a}_z 8, \quad \vec{P}_3\vec{P}_1 = -\vec{a}_x 6 - \vec{a}_y - \vec{a}_z$$

(a)  $\vec{P}_1\vec{P}_2 \cdot \vec{P}_2\vec{P}_3 = 0. \quad \therefore \Delta P_1 P_2 P_3$  is a right triangle.

(b) Area of triangle =  $\frac{1}{2} |\vec{P}_1\vec{P}_2 \times \vec{P}_2\vec{P}_3| = 17.1$

P.2-3



$$\vec{D}_1 = \vec{B} + \vec{A}, \quad \vec{D}_2 = \vec{B} - \vec{A}$$

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

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

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

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

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

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

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**Karin Nielsen-Saines**



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