# Fundamentals of Electromagnetics with Engineering Applications 1st Edition Wentworth Solutions Manual

#### Solutions for Chapter 2 Problems

#### 1. Vectors in the Cartesian Coordinate System

P2.1: Given P(4,2,1) and A<sub>PO</sub>=2a<sub>1</sub> +4a<sub>2</sub> +6a<sub>2</sub>, find the point Q.

 $A_{PQ} = 2 a_x + 4 a_y + 6 a_z = (Q_x - P_x)a_x + (Q_y - P_y)a_y + (Q_z - P_z)a_z$   $Q_x - P_x = Q_x - 4 = 2$ ;  $Q_x = 6$   $Q_y - P_y = Q_y - 2 = 4$ ;  $Q_y = 6$  $Q_z - P_z = Q_z - 1 = 6$ ;  $Q_z = 7$ 

P2.2: Given the points P(4,1,0)m and Q(1,3,0)m, fill in the table and make a sketch of the vectors found in (a) through (f).

and the second second second second	Vector	Mag	Unit Vector
a. Find the vector A from the origin to P	$\mathbf{A}_{\mathrm{OP}} = 4  \mathbf{a}_{\mathrm{x}} + 1  \mathbf{a}_{\mathrm{y}}$	4.12	$A_{OP} = 0.97 a_x + 0.24 a_y$
b. Find the vector <b>B</b> from the origin to Q	$\mathbf{B}_{\mathrm{OQ}} = 1 \ \mathbf{a}_{x} + 3 \ \mathbf{a}_{y}$	3.16	$\mathbf{a}_{OQ} = 0.32 \ \mathbf{a}_x + 0.95 \ \mathbf{a}_y$
c. Find the vector C from P to Q	$\mathbf{C}_{PQ} = -3  \mathbf{a}_x + 2  \mathbf{a}_y$	3.61	$\mathbf{a}_{PQ} = -0.83 \ \mathbf{a}_x + 0.55 \ \mathbf{a}_y$
d. Find A + B	$A + B = 5 a_x + 4 a_y$	6.4	$a = 0.78 a_x + 0.62 a_y$
e. Find C – A	$C - A = -7 a_x + 1 a_y$	7.07	$\mathbf{a} = -0.99 \ \mathbf{a}_x + 0.14 \ \mathbf{a}_y$
f. Find B - A	$B - A = -3 a_x + 2 a_y$	3.6	$\mathbf{a} = -0.83 \ \mathbf{a}_x + 0.55 \ \mathbf{a}_y$

a. 
$$A_{OP} = (4-0)\mathbf{a}_x + (1-0)\mathbf{a}_y + (0-0)\mathbf{a}_z = 4 \mathbf{a}_x + 1 \mathbf{a}_y$$
.  
 $|\mathbf{A}_{OP}| = \sqrt{4^2 + 1^2} = \sqrt{17} = 4.12$ 

$$\mathbf{a}_{\text{op}} = \frac{4}{\sqrt{17}} \mathbf{a}_x + \frac{1}{\sqrt{17}} \mathbf{a}_y = 0.97 \mathbf{a}_x + 0.24 \mathbf{a}_y$$

(see Figure P2.2ab)

Ans: Q(6.6.7)

b. 
$$\mathbf{B}_{OQ} = (1-0)\mathbf{a}_x + (3-0)\mathbf{a}_y + (0-0)\mathbf{a}_z = 1 \mathbf{a}_x + 3 \mathbf{a}_y$$
.

$$|\mathbf{B}_{o\phi}| = \sqrt{1^2 + 3^2} = \sqrt{10} = 3.16$$

$$\mathbf{a}_{oq} = \frac{1}{\sqrt{10}} \mathbf{a}_x + \frac{3}{\sqrt{10}} \mathbf{a}_y = 0.32 \mathbf{a}_x + 0.95 \mathbf{a}_y$$

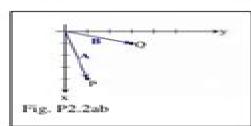
(see Figure P2.2ab)

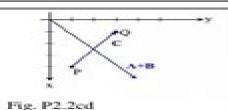
c. 
$$C_{PQ} = (1-4)\mathbf{a}_x + (3-1)\mathbf{a}_y + (0-0)\mathbf{a}_z = -3 \mathbf{a}_x + 2 \mathbf{a}_y$$
.

$$|C_{PQ}| = \sqrt{3^2 + 2^2} = \sqrt{13} = 3.61$$

$$\mathbf{a}_{\text{PQ}} = \frac{-3}{\sqrt{13}} \mathbf{a}_{x} + \frac{2}{\sqrt{13}} \mathbf{a}_{y} = -0.83 \mathbf{a}_{x} + 0.55 \mathbf{a}_{y}$$

(see Figure P2.2cd)





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Franklin Institute (Philadelphia, Pa.)

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