

**ENGINEERING ELECTROMAGNETICS by William H. Hayt, Jr.**  
**FIFTH EDITION (ANSWER TO ODD-NUMBERED QUESTIONS)**

# CHAPTER 1

## VECTOR ANALYSIS

### PROBLEMS

1. Let each of the vectors  $\vec{A} = 5\vec{a}_x - \vec{a}_y + 3\vec{a}_z$ ,  $\vec{B} = -2\vec{a}_x + 2\vec{a}_y + 4\vec{a}_z$ , and  $\vec{C} = 3\vec{a}_x - 9\vec{a}_y$  extend outward from the origin of a cartesian coordinate system to points A, B, and C, respectively. Find a unit vector directed from point A toward: (a) the origin; (b) point B; (c) a point equidistant from B and C on the line BC. (d) Find the length of the perimeter of the triangle ABC.

$$\begin{aligned} \text{a) } \vec{R}_{AO} &= \vec{r}_O - \vec{r}_A \\ &= 0 - (5\vec{a}_x - \vec{a}_y + 3\vec{a}_z) \\ \vec{R}_{AO} &= -5\vec{a}_x + \vec{a}_y - 3\vec{a}_z \\ |\vec{R}_{AO}| &= \sqrt{(-5)^2 + (1)^2 + (-3)^2} \\ |\vec{R}_{AO}| &= \sqrt{35} \\ \hat{R}_{AO} &= \frac{-5\vec{a}_x + \vec{a}_y - 3\vec{a}_z}{\sqrt{35}} \end{aligned}$$

$$\text{a) } \hat{R}_{AO} = -0.495\vec{a}_x + 0.1610\vec{a}_y - 0.507\vec{a}_z$$

$$\begin{aligned} \text{c) } \vec{R}_{AB} &= \frac{\vec{B} + \vec{C}}{2} \\ &= \frac{-2\vec{a}_x + 2\vec{a}_y + 4\vec{a}_z + 3\vec{a}_x - 9\vec{a}_y}{2} \\ &= \frac{-\vec{a}_x - 7\vec{a}_y + 4\vec{a}_z}{2} \\ \vec{R}_{AB} &= \vec{R}_{AB} - \vec{r}_A \\ &= -\vec{a}_x + \frac{7}{2}\vec{a}_y - (5\vec{a}_x - \vec{a}_y + 3\vec{a}_z) \\ &= -6\vec{a}_x + \frac{9}{2}\vec{a}_y - 3\vec{a}_z \\ |\vec{R}_{AB}| &= \sqrt{(-6)^2 + (\frac{9}{2})^2 + (-3)^2} \\ |\vec{R}_{AB}| &= \frac{\sqrt{105}}{2} \\ \hat{R}_{AB} &= \frac{\vec{R}_{AB}}{|\vec{R}_{AB}|} \\ &= \frac{-6\vec{a}_x + \frac{9}{2}\vec{a}_y - 3\vec{a}_z}{\frac{\sqrt{105}}{2}} \end{aligned}$$

$$\text{c) } \hat{R}_{AB} = -0.745\vec{a}_x + 0.464\vec{a}_y - 0.396\vec{a}_z$$

$$\begin{aligned} \text{b) } \vec{R}_{AB} &= \vec{r}_B - \vec{r}_A \\ &= -2\vec{a}_x + 2\vec{a}_y + 4\vec{a}_z - (5\vec{a}_x - \vec{a}_y + 3\vec{a}_z) \\ \vec{R}_{AB} &= -7\vec{a}_x + 3\vec{a}_y + \vec{a}_z \\ |\vec{R}_{AB}| &= \sqrt{(-7)^2 + (3)^2 + (1)^2} \\ |\vec{R}_{AB}| &= \sqrt{59} \\ \hat{R}_{AB} &= \frac{-7\vec{a}_x + 3\vec{a}_y + \vec{a}_z}{\sqrt{59}} \end{aligned}$$

$$\text{b) } \hat{R}_{AB} = -0.495\vec{a}_x + 0.348\vec{a}_y + 0.150\vec{a}_z$$

$$\begin{aligned} \text{d) } \vec{R}_{AC} &= \vec{r}_C - \vec{r}_A \\ &= 3\vec{a}_x - 9\vec{a}_y - (5\vec{a}_x - \vec{a}_y + 3\vec{a}_z) \\ \vec{R}_{AC} &= -2\vec{a}_x - 8\vec{a}_y - 3\vec{a}_z \\ |\vec{R}_{AC}| &= \sqrt{(-2)^2 + (-8)^2 + (-3)^2} \\ |\vec{R}_{AC}| &= \sqrt{73} \\ \hat{R}_{AC} &= \frac{-2\vec{a}_x - 8\vec{a}_y - 3\vec{a}_z}{\sqrt{73}} \\ \vec{R}_{BC} &= 3\vec{a}_x - 9\vec{a}_y - (-2\vec{a}_x + 2\vec{a}_y + 4\vec{a}_z) \\ \vec{R}_{BC} &= 5\vec{a}_x - 11\vec{a}_y - 4\vec{a}_z \\ |\vec{R}_{BC}| &= \sqrt{(5)^2 + (-11)^2 + (-4)^2} \\ |\vec{R}_{BC}| &= \sqrt{146} \end{aligned}$$

$$\begin{aligned} P_{ABC} &= |\vec{R}_{AB}| + |\vec{R}_{BC}| + |\vec{R}_{AC}| \\ &= \frac{\sqrt{105}}{2} + \sqrt{146} + \sqrt{73} \end{aligned}$$

$$\text{d) } P_{ABC} = 25.5 \text{ units}$$

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