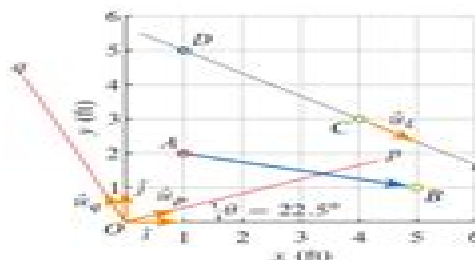


### Problem 1.4 i

Determine expressions for the vector  $\vec{r}_{B/A}$  using both the  $xy$  and the  $pq$  coordinate systems. Next, determine  $|\vec{r}_{B/A}|$ , the magnitude of  $\vec{r}_{B/A}$ , using both the  $xy$  and the  $pq$  representations and establish whether or not the two values for  $|\vec{r}_{B/A}|$  are equal to each other.



### Solution

Using the component system formed by the unit vectors  $\hat{i}$  and  $\hat{j}$ , the vector  $\vec{r}_{B/A}$  can be written as  $\vec{r}_{B/A} = (x_B - x_A)\hat{i} + (y_B - y_A)\hat{j}$ , where  $(x_A, y_A)$  and  $(x_B, y_B)$  are the Cartesian coordinates of points  $A$  and  $B$  relative to the  $xy$  coordinate system, respectively. By inspection we have  $(x_A, y_A) = (1.000, 2.000)$  ft and  $(x_B, y_B) = (5.000, 1.000)$  ft. Therefore, we have

$$\vec{r}_{B/A} = (4.000\hat{i} - 1.000\hat{j}) \text{ ft}, \quad (1)$$

which, when expressed to three significant figures, gives

$$\vec{r}_{B/A} = (4.00\hat{i} - 1.00\hat{j}) \text{ ft}.$$

Now we find the unit vectors  $\hat{u}_p$  and  $\hat{u}_q$ , which are the unit vectors orienting the  $p$  and  $q$  axes, respectively,

$$\hat{u}_p = \cos \theta_p \hat{i} + \sin \theta_p \hat{j} \quad \text{and} \quad \hat{u}_q = \cos \theta_q \hat{i} + \sin \theta_q \hat{j}, \quad (2)$$

where  $\theta_p$  and  $\theta_q$  are the angles formed by the  $p$  and  $q$  axes with the positive  $x$  axis, respectively, and therefore are given by  $\theta_p = \theta = 22.5^\circ$ ,  $\theta_q = (\theta + 90^\circ) = 112.5^\circ$ . Consequently, Eqs. (2) and (3) become

$$\hat{u}_p = 0.9239\hat{i} + 0.3827\hat{j} \quad \text{and} \quad \hat{u}_q = -0.3827\hat{i} + 0.9239\hat{j}. \quad (3)$$

Then, using Eqs. (1) and (3), the expression for  $\vec{r}_{B/A}$  in the  $pq$  component system is

$$\begin{aligned} \vec{r}_{B/A} &= (\hat{u}_p \cdot \vec{r}_{B/A})\hat{u}_p + (\hat{u}_q \cdot \vec{r}_{B/A})\hat{u}_q \\ &= \{[(4.000\hat{i} - 1.000\hat{j}) \text{ ft}] \cdot (0.9239\hat{i} + 0.3827\hat{j})\}\hat{u}_p \\ &\quad + \{[(4.000\hat{i} - 1.000\hat{j}) \text{ ft}] \cdot (-0.3827\hat{i} + 0.9239\hat{j})\}\hat{u}_q \\ &= (3.313\hat{u}_p - 2.455\hat{u}_q) \text{ ft}, \end{aligned} \quad (4)$$

which, when expressed to three significant figures gives

$$\vec{r}_{B/A} = (3.31\hat{u}_p - 2.46\hat{u}_q) \text{ ft}.$$

# Engineering Mechanics Gray Solution

**Jicheng Xie**



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