

P. 8.1.1

$$(a) \quad \mathbf{r} = \mathbf{P} - (\mathbf{P}, \mathbf{a})\mathbf{a} = (\mathbf{P}, \mathbf{a})\mathbf{a} = (\mathbf{P}, \mathbf{a})\mathbf{a}$$

$$|\mathbf{r}| = |\mathbf{P}| = \sqrt{16 + 9 + 9} = 5$$

$$(b) \quad \mathbf{r} = \mathbf{P} - (\mathbf{P}, \mathbf{a})\mathbf{a} = (\mathbf{P}, \mathbf{a})\mathbf{a} = (\mathbf{P}, \mathbf{a})\mathbf{a}$$

$$(c) \quad \text{The component of } \mathbf{r} \text{ along } \mathbf{a} \text{ is } \quad \mathbf{r}_a = \mathbf{r}$$

$$(d) \quad \mathbf{r} = \mathbf{P} - (\mathbf{P}, \mathbf{a})\mathbf{a} = (\mathbf{P}, \mathbf{a})\mathbf{a} = (\mathbf{P}, \mathbf{a})\mathbf{a}$$

A unit vector parallel to this vector is

$$\begin{aligned} \mathbf{e}_a &= \frac{(\mathbf{P}, \mathbf{a})\mathbf{a}}{|\mathbf{r}|} = \frac{(\mathbf{P}, \mathbf{a})\mathbf{a}}{5} \\ &= \frac{1}{5}(16\mathbf{e}_1 + 9\mathbf{e}_2 + 9\mathbf{e}_3) \end{aligned}$$

P. 8.1.2 (a) The distance vector

$$\begin{aligned} \mathbf{r}_{PQ} &= \mathbf{r}_Q - \mathbf{r}_P = (\mathbf{P}, \mathbf{a})\mathbf{a} - (\mathbf{P}, \mathbf{a})\mathbf{a} \\ &= -2\mathbf{a}_1 - \mathbf{a}_2 + 2\mathbf{a}_3 \end{aligned}$$

(b) The distance between Q and R is

$$|\mathbf{r}_{PQ}| = \sqrt{4 + 1 + 4} = 3$$

$$(c) \quad \text{Vector } \mathbf{r}_{PQ} = \mathbf{r}_Q - \mathbf{r}_P = (\mathbf{P}, \mathbf{a})\mathbf{a} - (\mathbf{P}, \mathbf{a})\mathbf{a} = (\mathbf{P}, \mathbf{a})\mathbf{a}$$

$$\begin{aligned} \cos \theta_{PQ} &= \frac{\mathbf{r}_{PQ} \cdot \mathbf{r}_{PQ}}{|\mathbf{r}_{PQ}| |\mathbf{r}_{PQ}|} = \frac{9}{3 \cdot 3} \\ \theta_{PQ} &= 90^\circ \end{aligned}$$

$$(d) \quad \mathbf{r}_{PQ} = \mathbf{r}_Q - \mathbf{r}_P = (\mathbf{P}, \mathbf{a})\mathbf{a} - (\mathbf{P}, \mathbf{a})\mathbf{a} = (\mathbf{P}, \mathbf{a})\mathbf{a}$$

$$= 12\mathbf{a}_1$$

# Practice Problems Of Sadiku 3rd Edition

**Lei Huang**



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