

$$\left(\frac{3}{\sqrt{14}} \right) \approx 37^\circ$$

same initial
 \vec{Q} , then the
 is denoted

is defined
 re θ is the

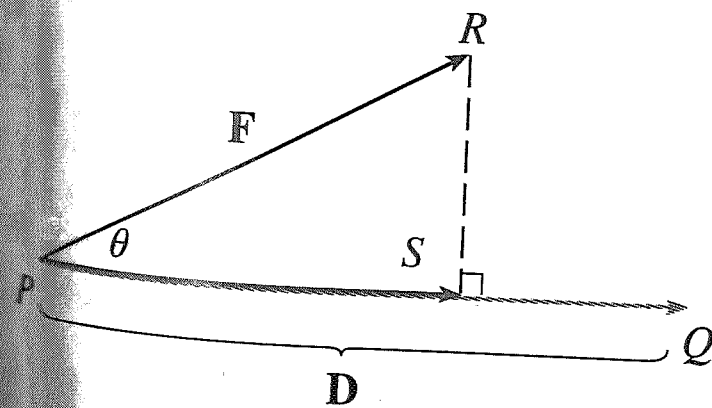


FIGURE 6

EXAMPLE 6 Find
 $\mathbf{a} = \langle -2, 3, 1 \rangle$.

SOLUTION Since $|\mathbf{a}|$

The vector projec

One use of proj
 the work done by a
 but this applies or
 Suppose, however,
 tion as in Figure 6
 vector is $\mathbf{D} = \vec{PQ}$.
 ponent of the force

But then, from The