

$$\begin{aligned}
&= \text{Magnitude of } \sqrt{29}, \text{ unit vector } \left( \frac{2}{\sqrt{29}}, \frac{-3}{\sqrt{29}}, \frac{4}{\sqrt{29}} \right) \\
&\text{Magnitude of } \sqrt{11}, \text{ unit vector } \left( \frac{2}{\sqrt{29}}, \frac{-3}{\sqrt{29}}, \frac{4}{\sqrt{29}} \right) \\
&\text{Magnitude of } \sqrt{29}, \text{ unit vector } \left( \frac{4}{\sqrt{29}}, \frac{9}{\sqrt{29}}, \frac{16}{\sqrt{29}} \right) \\
&\text{Magnitude of } \sqrt{11}, \text{ unit vector } \left( \frac{4}{\sqrt{29}}, \frac{9}{\sqrt{29}}, \frac{16}{\sqrt{29}} \right)
\end{aligned}$$