## Question 23

If the dot product of two vectors vanishes, what can you say about their directions?

## Solution

If $\overrightarrow{\mathbf{A}} \cdot \overrightarrow{\mathbf{B}}=0$, then $\overrightarrow{\mathbf{A}}$ and $\overrightarrow{\mathbf{B}}$ are orthogonal (their directions are perpendicular).

