Question 22

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

Solution

If $\overrightarrow{\mathbf{A}} \times \overrightarrow{\mathbf{B}} = \overrightarrow{\mathbf{0}}$, then $\overrightarrow{\mathbf{A}}$ and $\overrightarrow{\mathbf{B}}$ are either parallel (pointing in the same direction) or antiparallel (pointing in opposite directions).