

Motion in Space: Velocity and Acceleration



Question

The motion of a particle is given by the function $\vec{r}(t)$. If $\vec{r}(t) \times \vec{r}'(t)$ is parallel to \vec{j} for all t , what can be said about the motion?

- A. The acceleration is constant.
- B. The motion is parallel to the y -axis.
- C. The motion occurs in the xz -plane.
- D. The motion is along a helix.