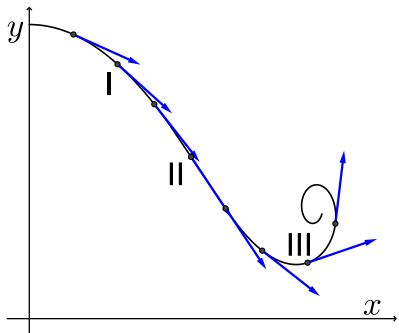# Arc length and Curvature

Question

The figure shows a curve along with the unit tangent vector $\vec{T}$ at a number of equally spaced points.

Rank the values of $\left| \dfrac{d\vec{T}}{ds} \right|$ at the points I, II, and III.

- A. smallest at I, largest at II
- B. smallest at III, largest at II
- C. smallest at II, largest at III
- D. the same at I and II, largest at III