Arc length and Curvature

Question

Suppose we have 3 curves with parametrizations $\vec{r_1}(t)$, $\vec{r_2}(t)$, and $\vec{r_3}(t)$ with speed functions whose graphs are shown in the figure. Which curve has the greatest length?

A. Curve 1

B. Curve 2

C. Curve 3

D. Not enough information to decide