Programming #3: Part I (4190.410)

Due: November 7, 2016

Consider several planar cubic Bézier curves $C_i(t)$, $0 \leq t \leq 1$, $(i = 1, \cdots, 7)$, in the xy-plane, and the sweeping a right circular cone $z = \sqrt{x^2 + y^2}$ with its apex moving along the Bézier curves.

Part I: Render the swept volume of the circular cone along each curve $C_i(t)$ using different color.