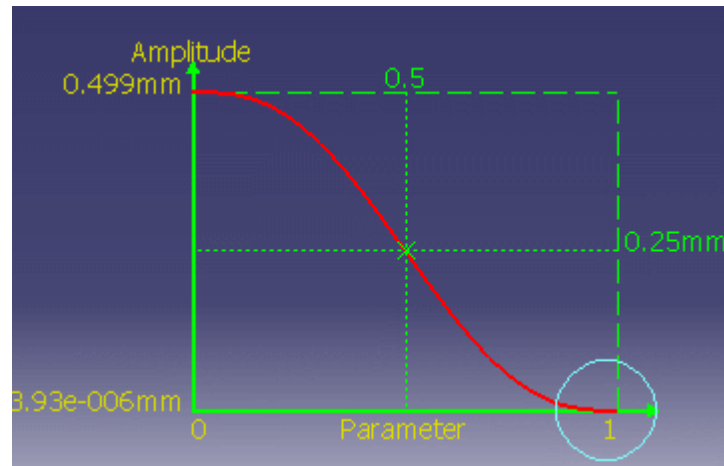**Knowledge Article:**

Abstract: GSD - Parallel curve created using the Radius law introduces angular discontinuities

Question: Sometimes, while using radius laws to create parallel curves, users notice quality defects such as angular discontinuities. How can we prevent this?

Scenario: For creating a parallel curve using a law:

1. Click Parallel Curve in the Wireframe toolbar. The Parallel Curve Definition dialog box appears.
2. In the Curve box, select the reference curve to be offset.
3. In the Support box, select the plane or surface on which the reference curve lies.
4. Specify the offset of the parallel curve by clicking on the Law button.

Observation: When you create a parallel curve using a radius law, it flattens out, resulting into quality defects such as angular discontinuities in the final product.

Answer:

To be able to create the parallel curve, add a small offset value to the radius law (value higher or equal to 0.001mm) so that it no longer gets null. This is also applicable when the input curve is non linear and/or the support is non planar.

This article is also applicable in V5.