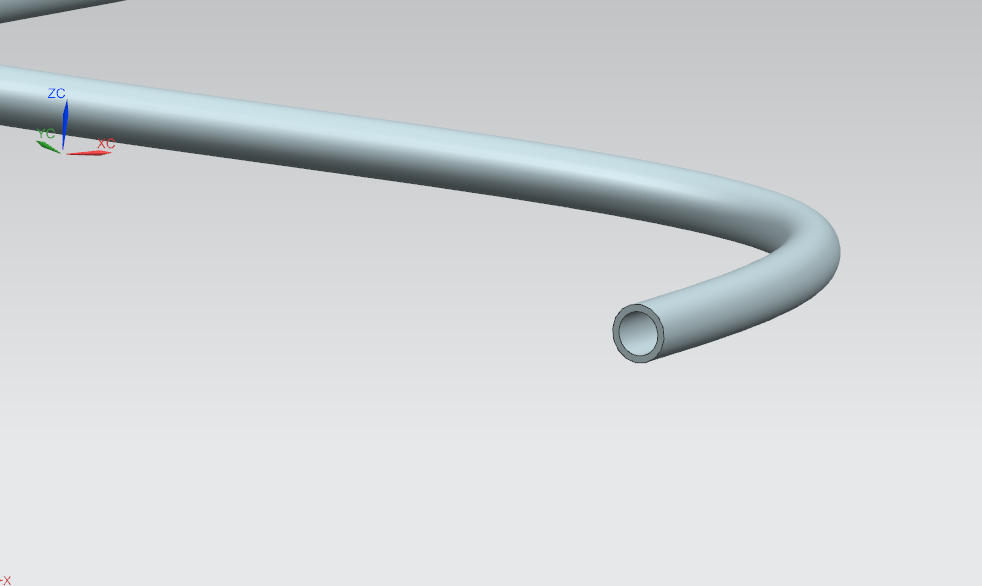
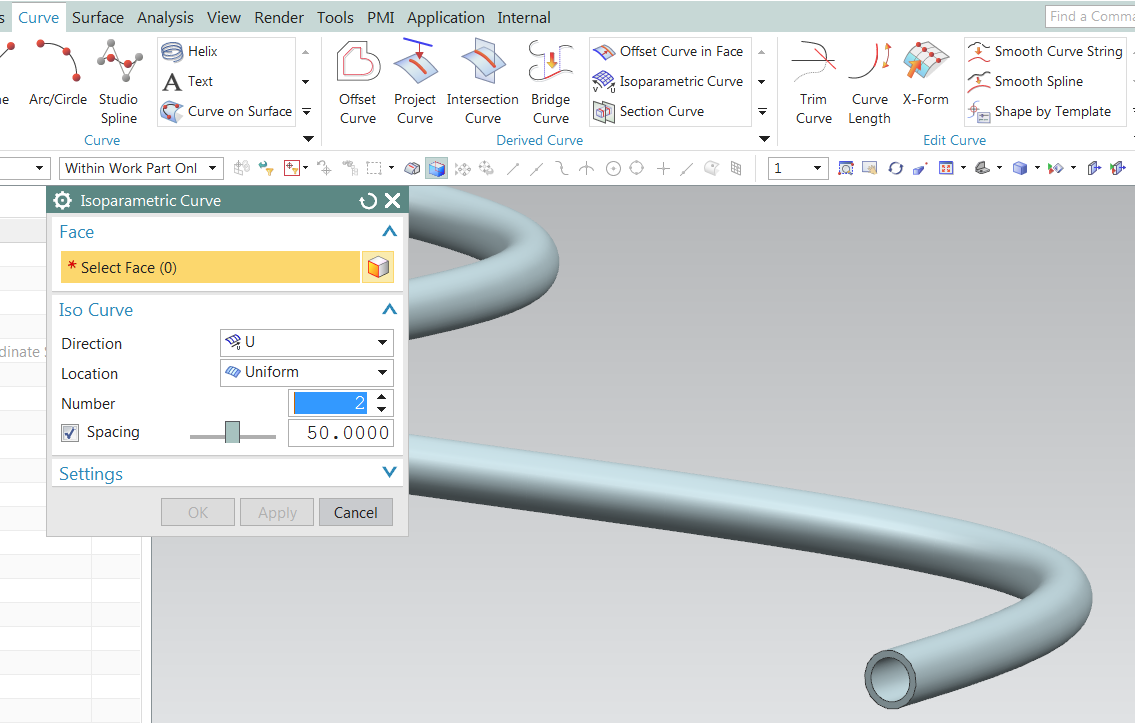
Extracting the Centerline of a Non-Parametric Tube Body

When presented with a non-parametric tube body, how can you extract the centerline of the body?

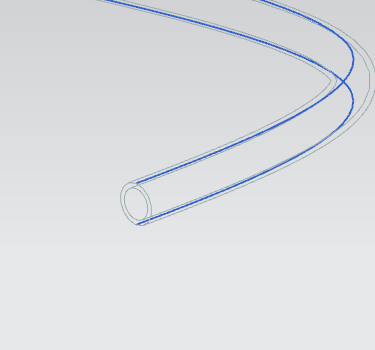


The following steps will create the centerline:

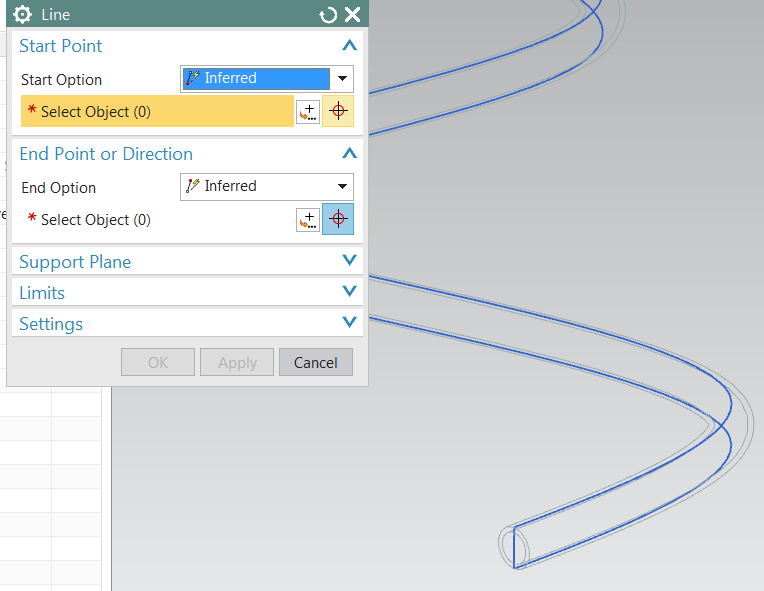
1. Curve --> Derived Curve --> Isoparametric Curve --> Direction = U, Location = Uniform, Number = 2, Spacing = 50.



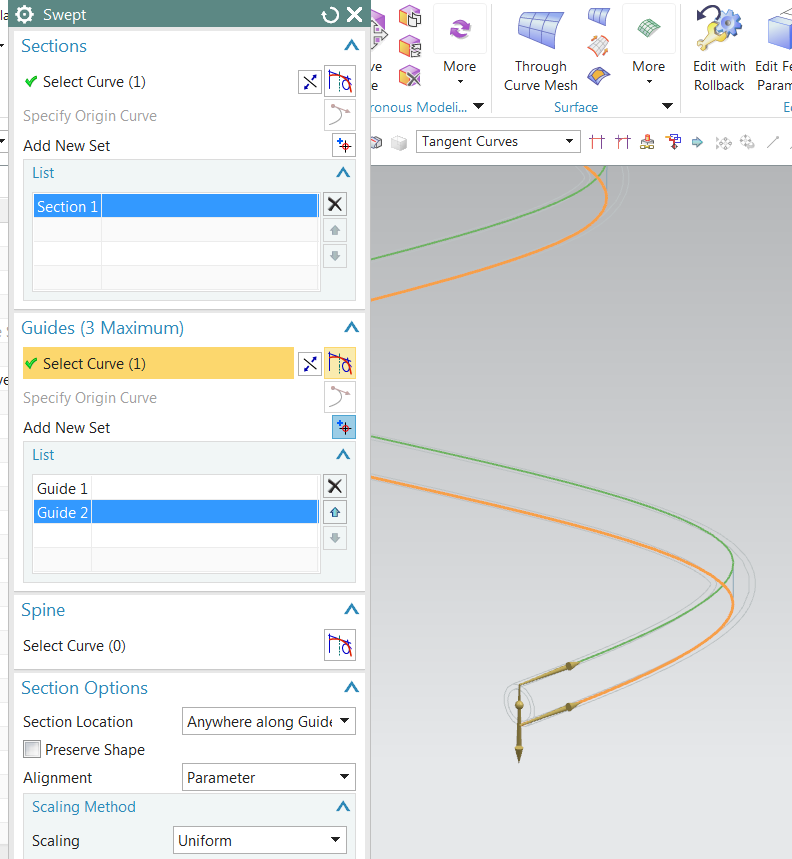
1. Select the outside face of the tube and the curves are created.



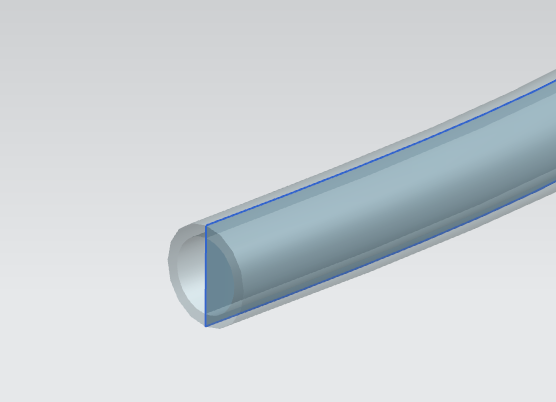
1. Create a line from two adjacent end points of the curves.



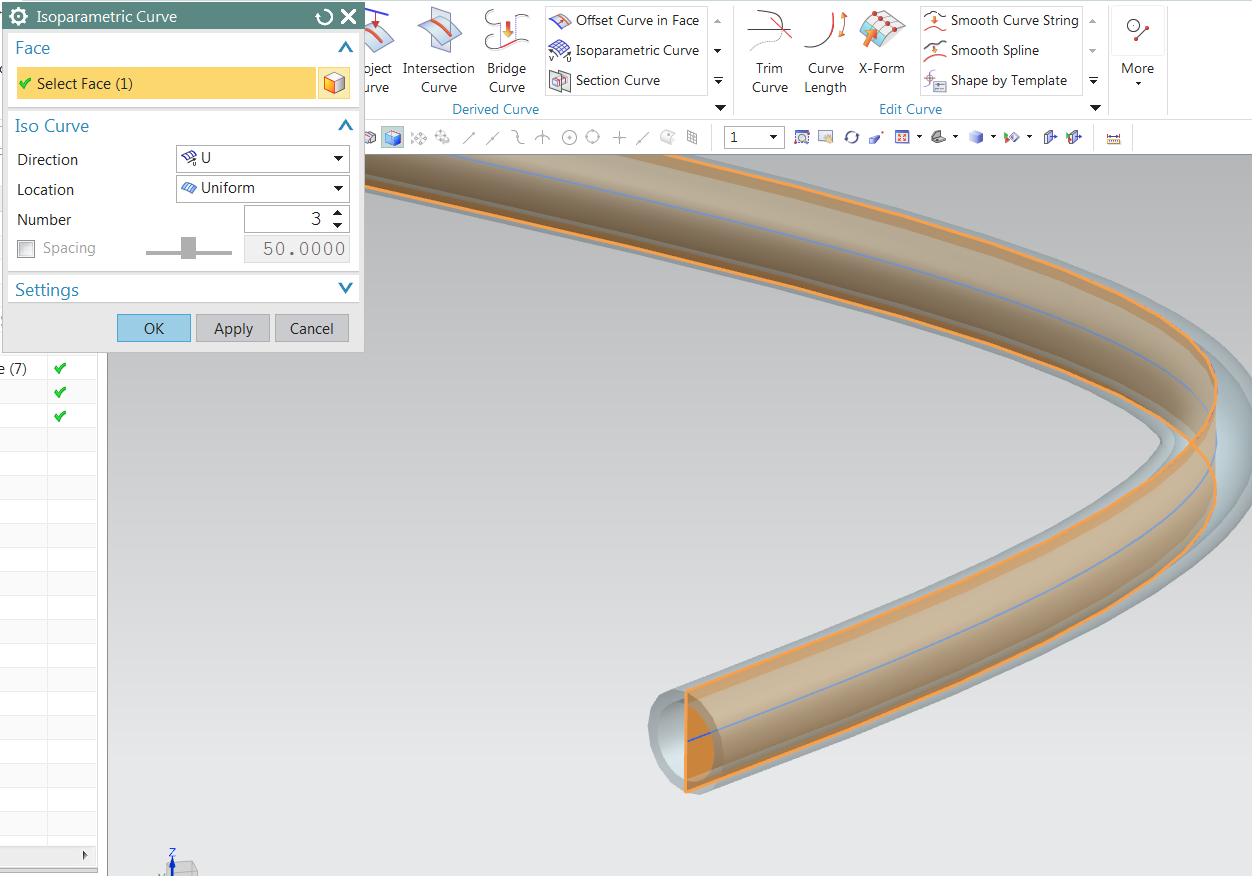
1. Home --> Feature --> Swept --> select the line for the section --> select the curves as the guides (select Add New Set before selecting the 2nd curve).



1. A Swept surface is created.



1. Curve --> Derived Curve --> Isoparametric Curve --> Direction = U, Location = Uniform, Number = 3, Spacing = 50.



1. You now have a centerline curve through the entire body.

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