

1145-VO-1302 **Richard G Ligo*** (ligo001@gannon.edu). *Curves, Pointwise Curvature, and Conformal Transformations.*

The pointwise absolute curvature of a curve provides a measurement of how tightly a curve is "turning" at any point. The maximum pointwise absolute curvature of any curve can be made arbitrarily large through dilation in a trivial way. In this talk it is shown that for any non-circular closed curve, there exists a length-preserving inversion such that the maximum pointwise absolute curvature can be made arbitrarily large. This is accomplished via an elementary argument involving basic analysis, topology, and geometry. (Received September 23, 2018)