Cluj-Napoca, Romania

1-3 December 2021

Global injectivity criteria and the valence of some functions

Cornel Pintea Babeş-Bolyai University, Cluj-Napoca, Romania

Abstract

We point out the role of monotonicity in proving some global injectivity criteria. We also investigate the valence of functions subject to the hypotheses of such global injectivity criteria, except the convexity hypothesis of the domain, which is removed. For such functions the convexity number of the domain is a upper bound for their valence.