Mustafa R. S. Kulenovic* (mkulenovic@uri.edu), Department of Mathematics, University of Rhode Island, Kingston, RI 02881. Invariant Curves for Planar Competitive and Cooperative Maps. Preliminary report.

We present some results on the existence of invariant curves for planar monotone maps that are linearly ordered in either south-east or north-east ordering. Some of these curves are the stable or unstable manifolds of hyperbolic fixed points (saddle points) or non-hyperbolic fixed points of both stable and unstable types, and are also the boundary of basins of attraction of such points. (Received September 14, 2016)