1050-39-44   **M R.S. Kulenovic*** (`mkulenovic@mail.uri.edu`), Lippitt Hall 200A, Kingston, RI 02881, and **Orlando Merino** (`merino@math.uri.edu`), Lippitt Hall, Kingston, RI 02881. *Global Bifurcation for Competitive Systems in the Plane.*

A global bifurcation result is obtained for families of competitive systems of difference equations

$$\begin{cases} x_{n+1} &= f_\alpha(x_n, y_n) \\ y_{n+1} &= g_\alpha(x_n, y_n) \end{cases}$$

where α is a parameter, f_α and g_α are continuous real valued functions on a rectangular domain $\mathcal{R}_\alpha \subset \mathbb{R}^2$ such that $f_\alpha(x, y)$ is non-decreasing in x and non-increasing in y, and $g_\alpha(x, y)$ is non-increasing in x and non-decreasing in y. A unique interior fixed point is assumed for all values of the parameter α. (Received February 10, 2009)

1