1042-39-28   **M. R. S. Kulenovic*** (`mkulenovic@mail.uri.edu`), Department of Mathematics, University of Rhode Island, Kingston, RI 02881. *Competitive systems of rational difference equations in the plane.* Preliminary report.

We consider some special cases of the rational systems in the plane, that is systems of the form,

$$\left.\begin{array}{l} x_{n+1} = \frac{\alpha_1 + \beta_1 x_n + \gamma_1 y_n}{A_1 + B_1 x_n + C_1 y_n} \\[2ex] y_{n+1} = \frac{\alpha_2 + \beta_2 x_n + \gamma_2 y_n}{A_2 + B_2 x_n + C_2 y_n} \end{array}\right\} , \quad n = 0, 1, \dots \tag{1}$$

with nonnegative parameters α_1, β_1, γ_1, A_1, B_1, C_1, α_2, β_2, γ_2, A_2, B_2, C_2 and with nonnegative initial conditions x_0, y_0 such that the denominators are always positive, which are competitive. We describe the global dynamics of such systems. (Received July 28, 2008)