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Edward Grove and **Evelina Giusti Lapierre*** (elapierre@jwu.edu), Mathematics Department, 8 Abbott Park Place, Providence, RI 02903, and **Wirot Tikjha**. *On the global behavior of the system of piecewise linear difference equations $x_{n+1} = |x_n| + ay_n + b$ and $y_{n+1} = x_n + c|y_n| + d$.* Preliminary report.

We give a detailed analysis, complete with open problems and conjectures, of the global character of the solutions of the piecewise linear difference equations

$$\begin{cases} x_{n+1} = |x_n| + ay_n + b \\ y_{n+1} = x_n + c|y_n| + d \end{cases}, \quad n = 0, 1, \dots$$

where the initial condition $(x_0, y_0) \in \mathbf{R}^2$ and the parameters $a, b, c, d \in \{-1, 0, 1\}$. (Received May 22, 2011)