Meeting: 1003, Atlanta, Georgia, SS 26A, AMS-SIAM Special Session on Dynamic Equations on Time Scales; Integer Sequences and Rational Maps, I

1003-39-25 **Piyapong - Niamsup*** (scipnmsp@chiangmai.ac.th), Department of Mathematics, Faculty of Science, Chiang Mai University, 50200 Chiang Mai, Chiang Mai, Thailand, and **Yongwimon - Lenbury** (scylb@mucc.mahidol.ac.th), Department of Mathematics, Faculty of Science, Mahidol University, Rama 6 Rd., Bangkok 10400, 10400 Bangkok, Bangkok, Thailand. *Global Attractivity of* $x_{n+1} = \frac{x_n+\alpha x_{n-1}+\beta}{x_n+\gamma x_{n-1}+\eta}$.

We study the difference equation $x_{n+1} = \frac{x_n+\alpha x_{n-1}+\beta}{x_n+\gamma x_{n-1}+\eta}$. We propose to find invariant intervals, global attractivity and semicycles of solutions of this difference equation. (Received May 25, 2004)