962-39-834 Edward A Grove* (grove@math.uri.edu), Department of Mathematics, University of Rhode Island, Kingston, RI 02881, El-Metwally Hamdi (hamdi@math.uri.edu), Department of Mathematics, Universoty of Rhode Island, Kingston, RI 02881, Gerry Ladas (gladas@math.uri.edu), Department of Mathematics, University of Rhode Island, Kingston, RI 02881, and H D Voulov (voulovh@yahoo.com), Division of Mathematics and Computer Science, Truman State University, Kirksville, MO 63501. On the difference equation x[n+1]=A[0]/x[n]+A[1]/x[n-1]+.....+A[k-1]/x[n-k+1], n=0,1,...

We establish a global convergence result and then apply it to show that every positive solution of the difference equation x[n+1]=A[0]/x[n]+A[1]/x[n-1]+....+A[k-1]/x[n-k+1],n=0,1,... converges to a period p solution, where the period p is easily determined in terms of the coefficients A[0], A[1],..., A[k-1]. (Received September 27, 2000)