962-39-46 Michael A. Radin* (mradin@math.uri.edu), University of Rhode Island, Department of Mathematics, Kingston, RI 02881, Hamdi El-Metwally (hamdi@math.uri.edu), University of Rhode Island, Department of Mathematics, Kingston, RI 02881, Edward A Grove (grove@math.uri.edu), University of Rhode Island, Department of Mathematics, Kingston, RI 02881, Gerry Ladas (gladas@math.uri.edu), University of Rhode Island, Department of Mathematics, Kingston, RI 02881, and Richard Levins (humaneco@biostat.harvard.edu), Harvard School of Public Health, Department of Population Science, 665 Huntington Avenue, Boston, MA 02115. On the Difference Equation $\left.\left.x_{[ } n+1\right]=a+b x_{[n}-1\right] e^{-x[n]}, n=0,1,2, \ldots$.
We study the global stability, the boundedness nature, and the periodic character of the positive solutions of the difference equation $\left.\left.x_{[ } n+1\right]=a+b x_{[ } n-1\right] e^{\left.-x_{[ } n\right]}, n=0,1,2, \ldots \ldots$ which may be interesting in its own right, but which may be viewed a describing a population model. (Received July 05, 2000)

