

1042-39-86

Michael A Radin* (michael.radin@rit.edu), School of Mathematical Sciences, College of Science, 85 Lomb Memorial Drive, Rochester, NY 14623. *Monotonic, Periodic and Bounded Nature of Non-Negative Solutions of Non-Autonomous Rational Difference Equations*. Preliminary report.

We investigate the monotonic, periodic and bounded nature of non-negative solutions of two different non-autonomous rational difference equations. We will examine the similarities and differences in the transient behaviors; the pattern of the periodic solutions, the uniqueness of periodic solutions, and the conditions for existence of periodic solutions and convergence to periodic solutions. (Received August 11, 2008)