

1096-39-439

Allan Peterson* (apeterson1@math.unl.edu), University of Nebraska-Lincoln, 237 Avery,
Lincoln, NE 685880130. *Nabla Fractional Difference Equations*.

We will introduce the discrete nabla fractional calculus. The basic functions in the nabla calculus will be given along with several of their properties. Taylor monomials and a Taylor formula will be given. The Mittag-Leffler function and its use to solving non-homogeneous fractional nabla difference equations will be presented. (Received September 03, 2013)