

1135-39-1389

Areeba Ikram* (areeba@huskers.unl.edu), 203 Avery Hall, PO Box 880130, Lincoln, NE 68521. *Lyapunov Inequalities for Boundary Value Problems involving Fractional Difference Equations*. Preliminary report.

We will present background for the nabla fractional calculus. We will then discuss Green's functions for several boundary value problems involving a Caputo fractional difference equation. Finally, we will show Lyapunov inequalities for these boundary value problems. (Received September 21, 2017)