

1125-39-1360      **Allan C Peterson\*** (apeterson1@math.unl.edu), Dr. Allan Peterson, 6650 Blue Ridge Lane,  
Lincoln, NE 68516. *A Monotonicity Theorem for the Quantum Calculus.*

We we give results concern monotonicity of functions whose domain is a quantum set. Also comparison theorems and asymptotic properties of solutions for fractional equations on a quantum set will be addressed. (Received September 16, 2016)