

1011-39-304

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*The Henstock-Kurzweil Delta Integral on Unbounded Time Scales.*

We investigate the Henstock-Kurzweil Delta integral on unbounded time scales. We prove that every improper delta integrable function is also HK-Delta integrable, and show that the Monotone Convergence Theorem holds for HK-Delta integrable functions on unbounded time scale intervals. We present several applications. (This research was carried out at the University of Nebraska-Lincoln REU in Applied Mathematics.) (Received August 30, 2005)