1116-39-473 **Nicholas Joseph Russell*** (`nicholas.russell1@marist.edu`), Department of Mathematics, Marist College, Poughkeepsie, NY 12601, and **Lingju Kong**, **Jacob Parsely** and **Kaitlin Rizzo**. *Anti-Periodic Solutions to a Higher Order Difference Equation with a p-Laplacian.*

We study a higher order difference equation defined on Z with a p-Laplacian and containing both advance and retardation. We obtain some criteria for the existence of infinitely many anti-periodic solutions of the equation. Several consequences of the main theorems are also presented. An example is included to illustrate the applicability of the results. (Received September 03, 2015)