1154-VP-1815 **Tyler Russell*** (tyler.russell1@aol.com), **Isaac Brown** and **Brendan Miller**. *Inflection Points and Comparability of Reliability Polynomials.* Preliminary report.

The reliability of a network is broadly defined to be the probability that the system remains operational after the failure of some of its components. This reliability is expressed as a polynomial in p, the probability an individual component remains operational. Graves and Milan have shown that reliability polynomials may have arbitrarily many inflection points. These results, however, have only been proven for one variation of reliability. In this paper, we extend these results for other variations of reliability. Many of these results are extended by finding a comparability relationship between two kinds of reliability. (Received September 16, 2019)