

Section 3.1 (and introduction) Worksheet: Interpolation and the Lagrange Polynomial

1. Why **not** use Taylor polynomials for interpolation?
2. Summarize (giving the sense/intuition behind) the Weierstrass Approximation Theorem.
3. There are a few things from this section you must know. One is this: If you have $n + 1$ distinct points (x_i, y_i) in the plane, x_i distinct, then we can fit those points with a/an _____ polynomial; the only thing that might go wrong is that....
4. What is the purpose of Neville's method?