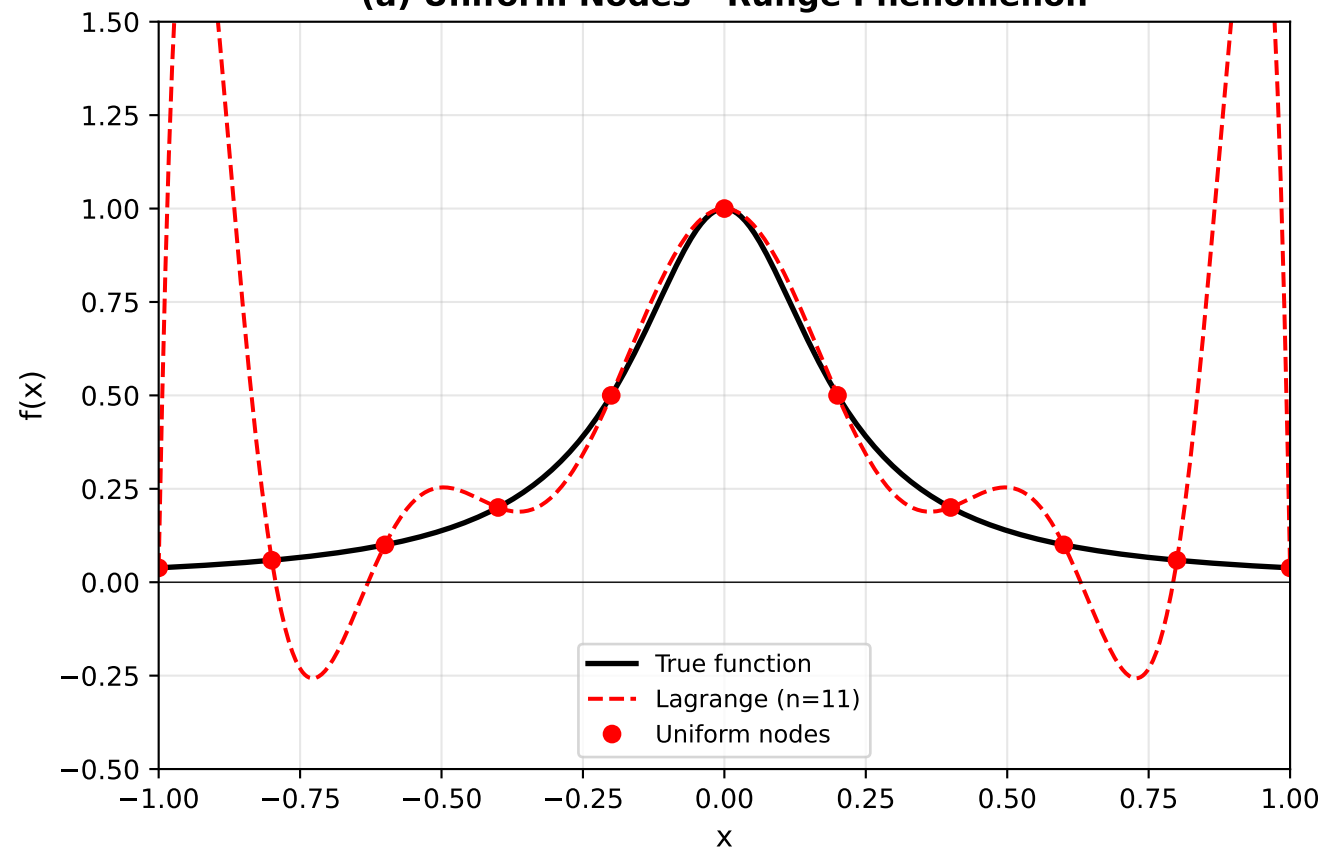
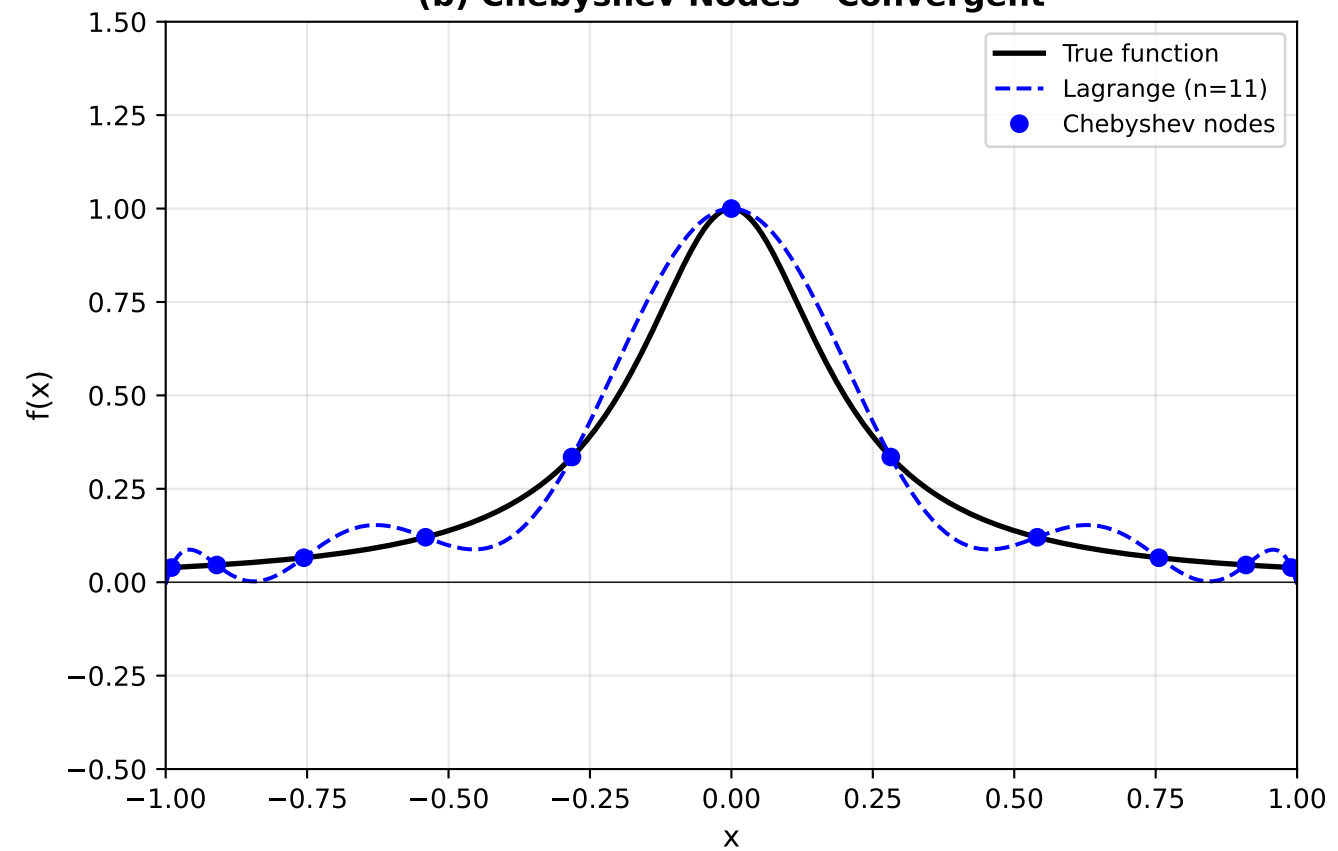


# Approximating Runge Function: $f(x) = \frac{1}{1 + 25x^2}$

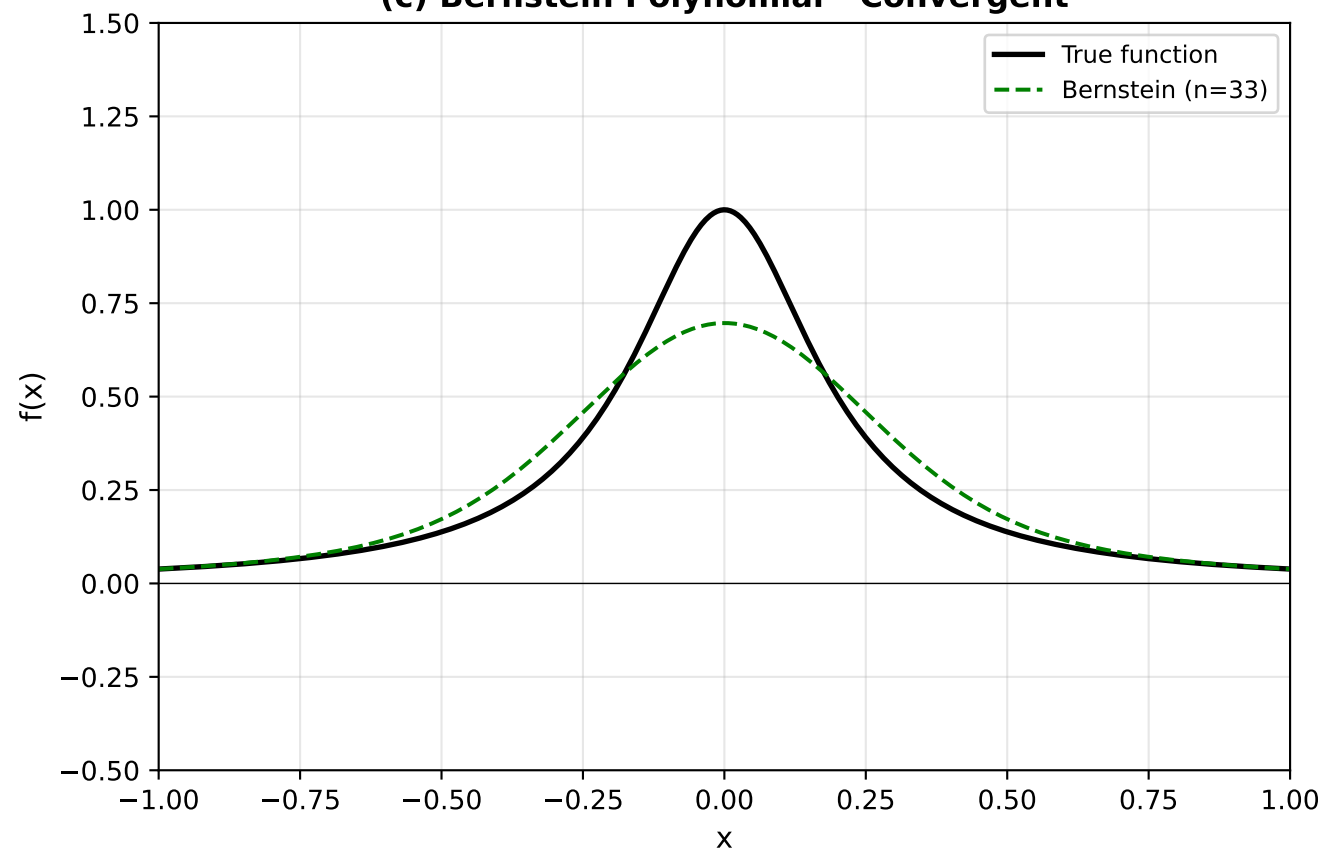
(a) Uniform Nodes - Runge Phenomenon



(b) Chebyshev Nodes - Convergent



(c) Bernstein Polynomial - Convergent



(d) Error Comparison

