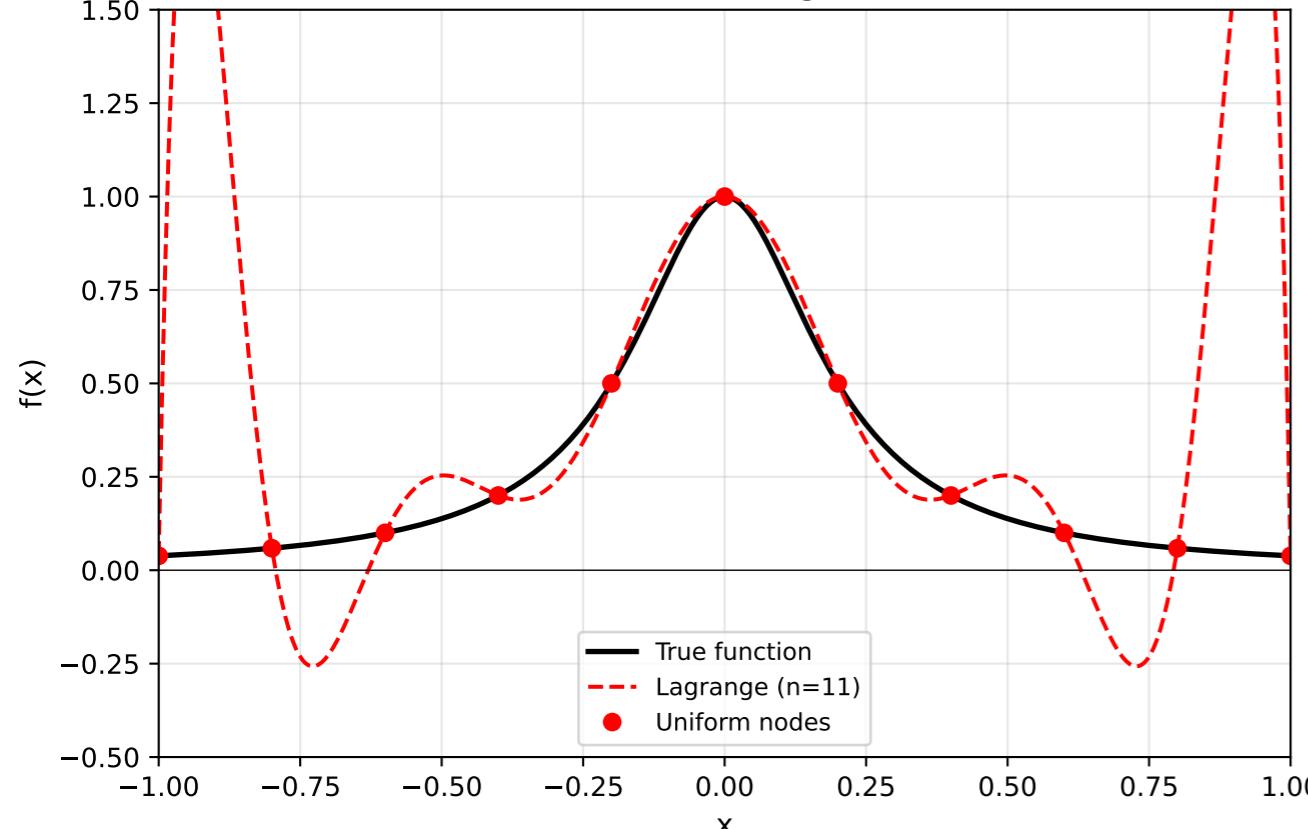
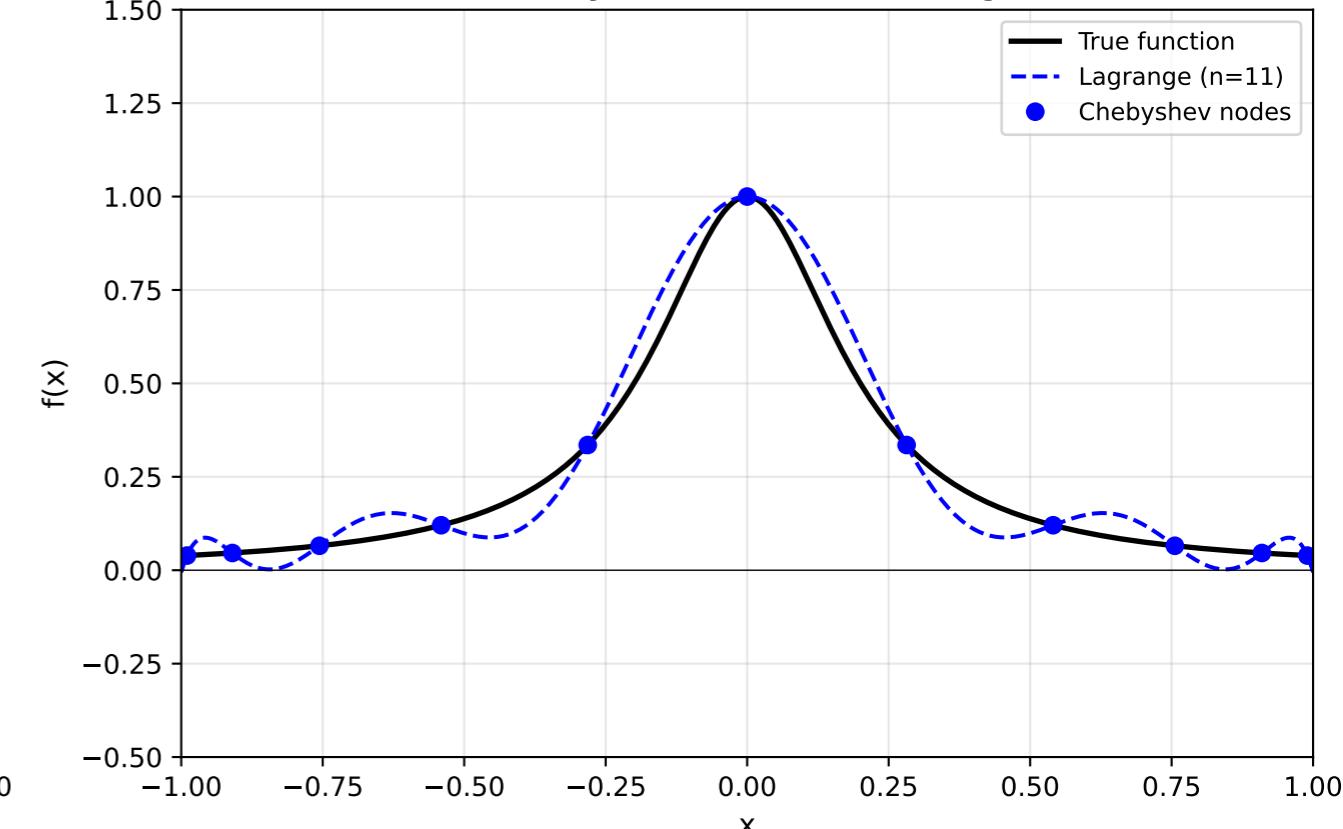


**Approximating Runge Function:**  $f(x) = \frac{1}{1 + 25x^2}$

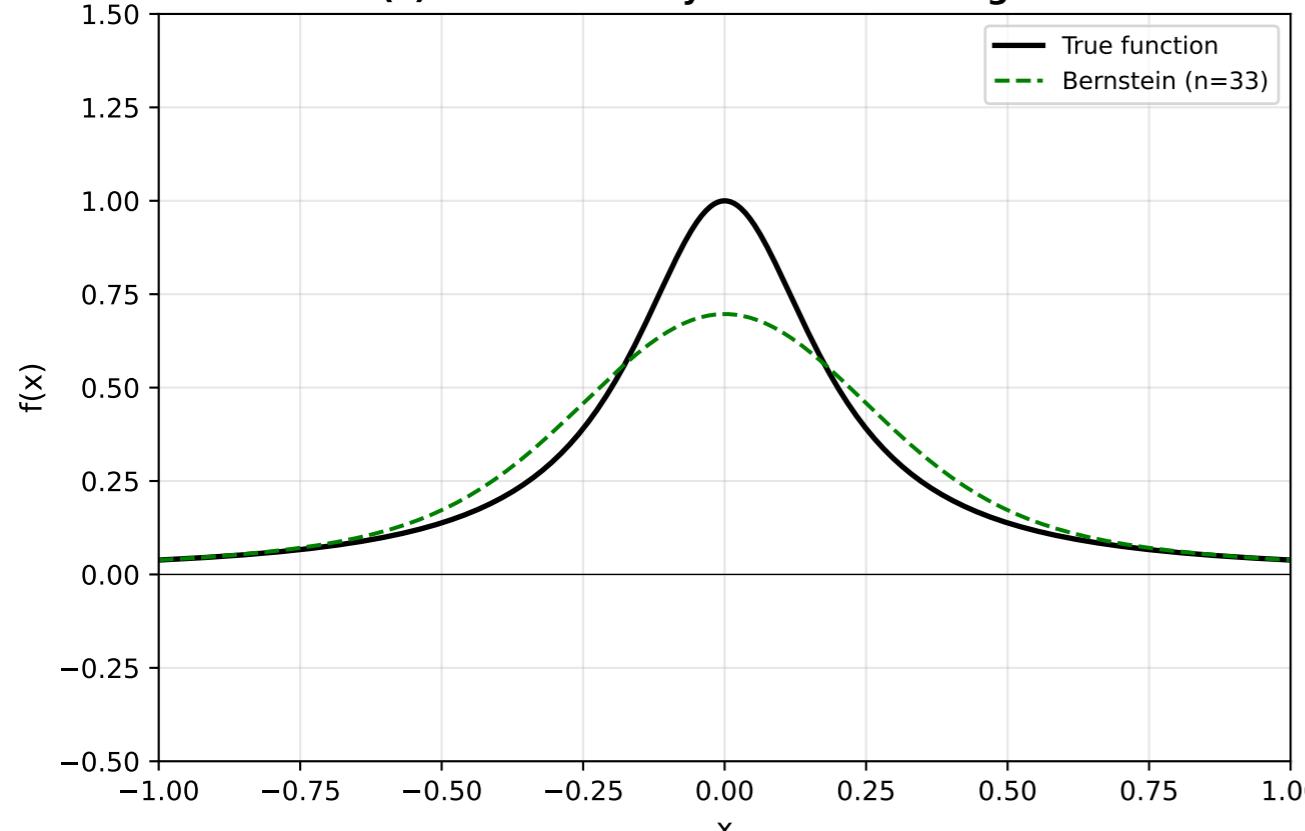
**(a) Uniform Nodes - Runge Phenomenon**



**(b) Chebyshev Nodes - Convergent**



**(c) Bernstein Polynomial - Convergent**



**(d) Error Comparison**

