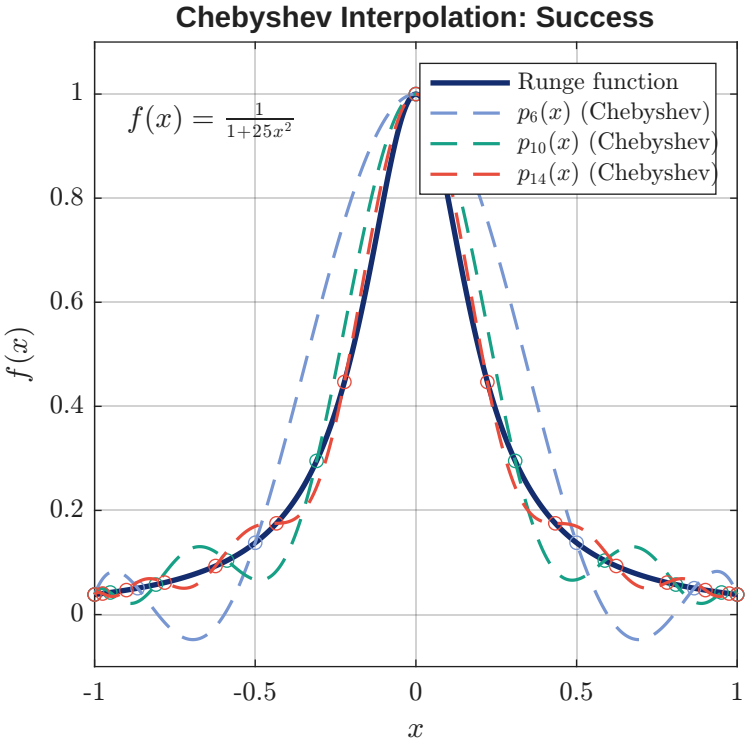
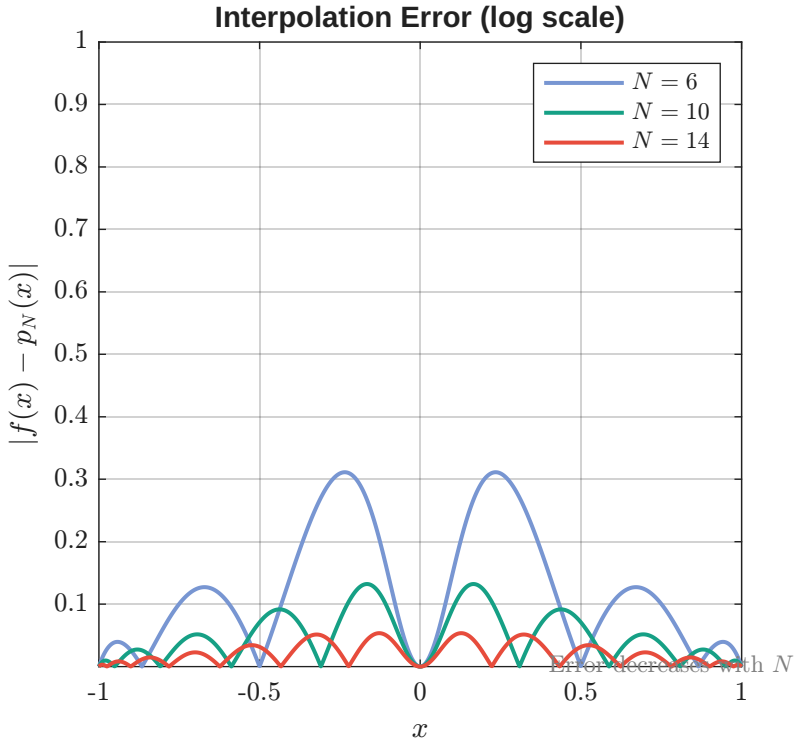

Chebyshev Interpolation: Success
$f(x) = \frac{1}{1+25x^2}$
Runge function
$p_6(x)$ (Chebyshev)
$p_{10}(x)$ (Chebyshev)
$p_{14}(x)$ (Chebyshev)
$f(x)$
x


Interpolation Error (log scale)
$N = 6$
$N = 10$
$N = 14$
$|f(x) - p_N(x)|$
x
Error decreases with N