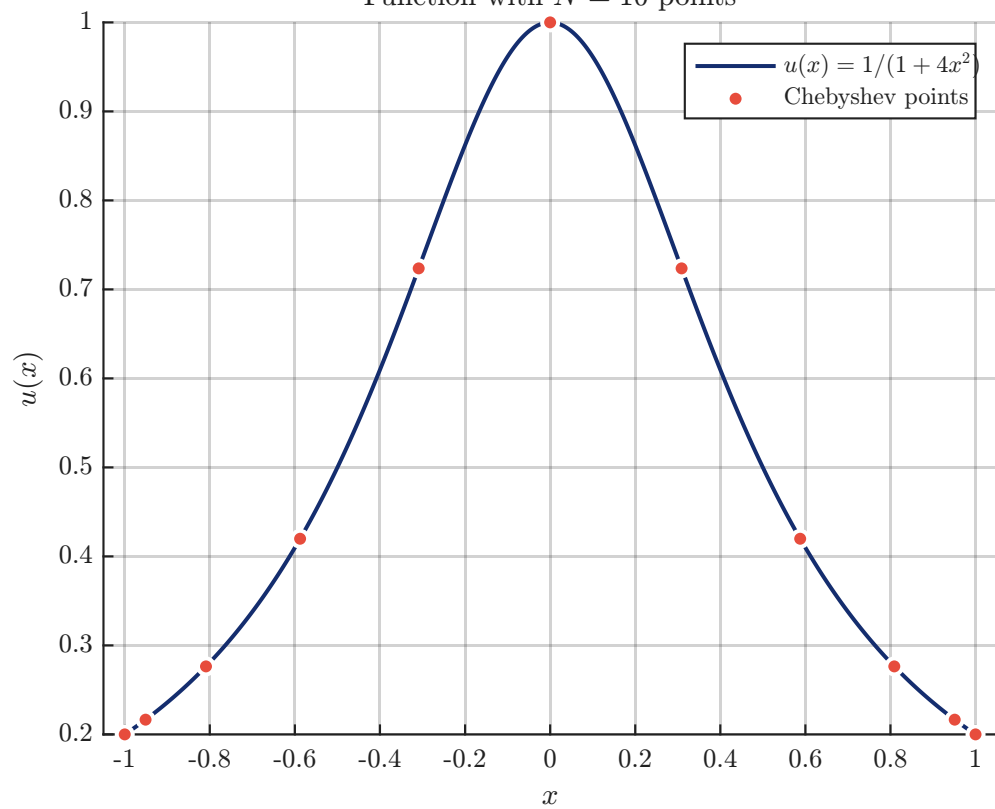
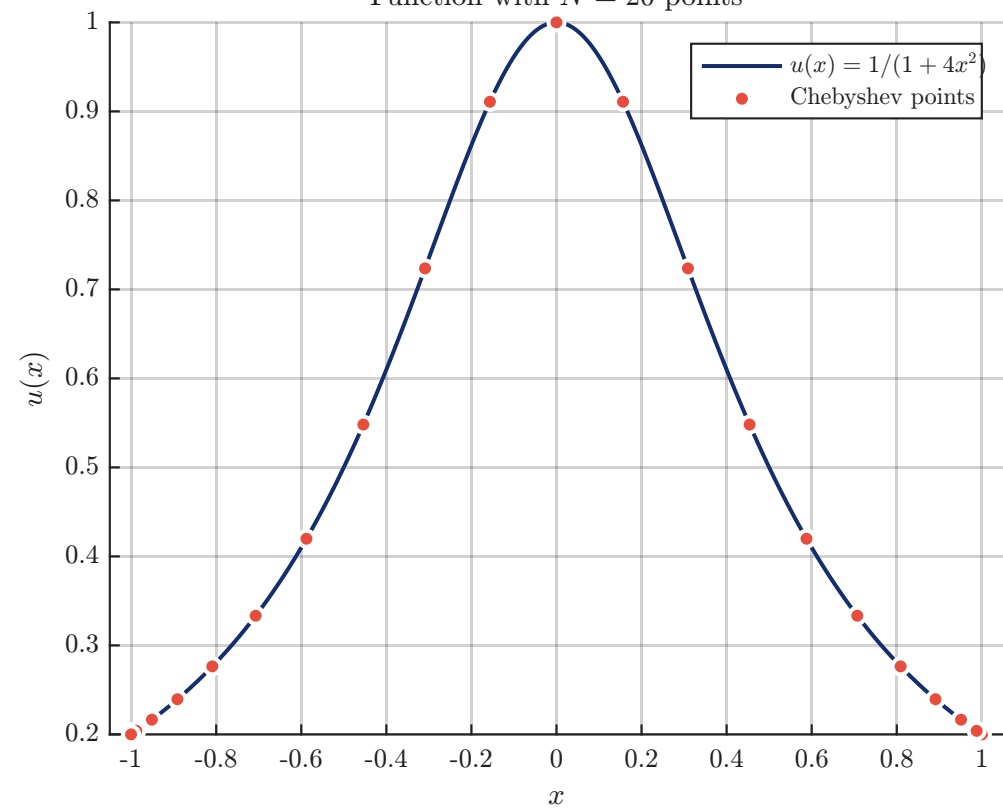


# Chebyshev Differentiation of $u(x) = 1/(1 + 4x^2)$ (Witch of Agnesi)

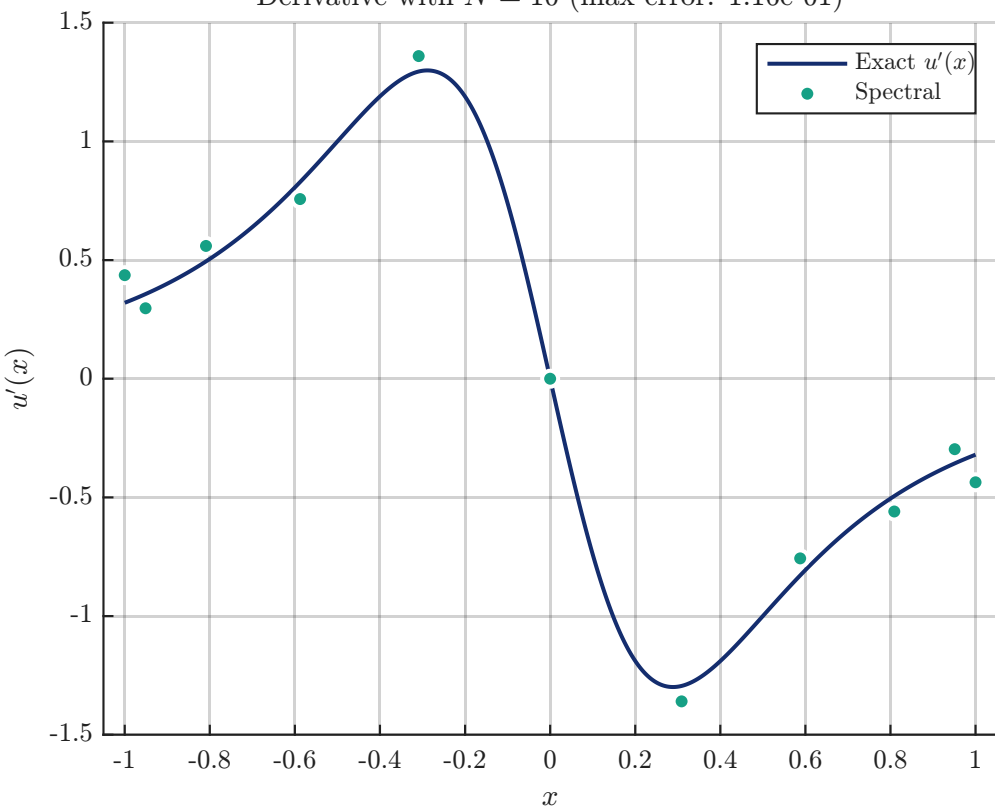
Function with  $N = 10$  points



Function with  $N = 20$  points



Derivative with  $N = 10$  (max error: 1.16e-01)



Derivative with  $N = 20$  (max error: 1.89e-03)

