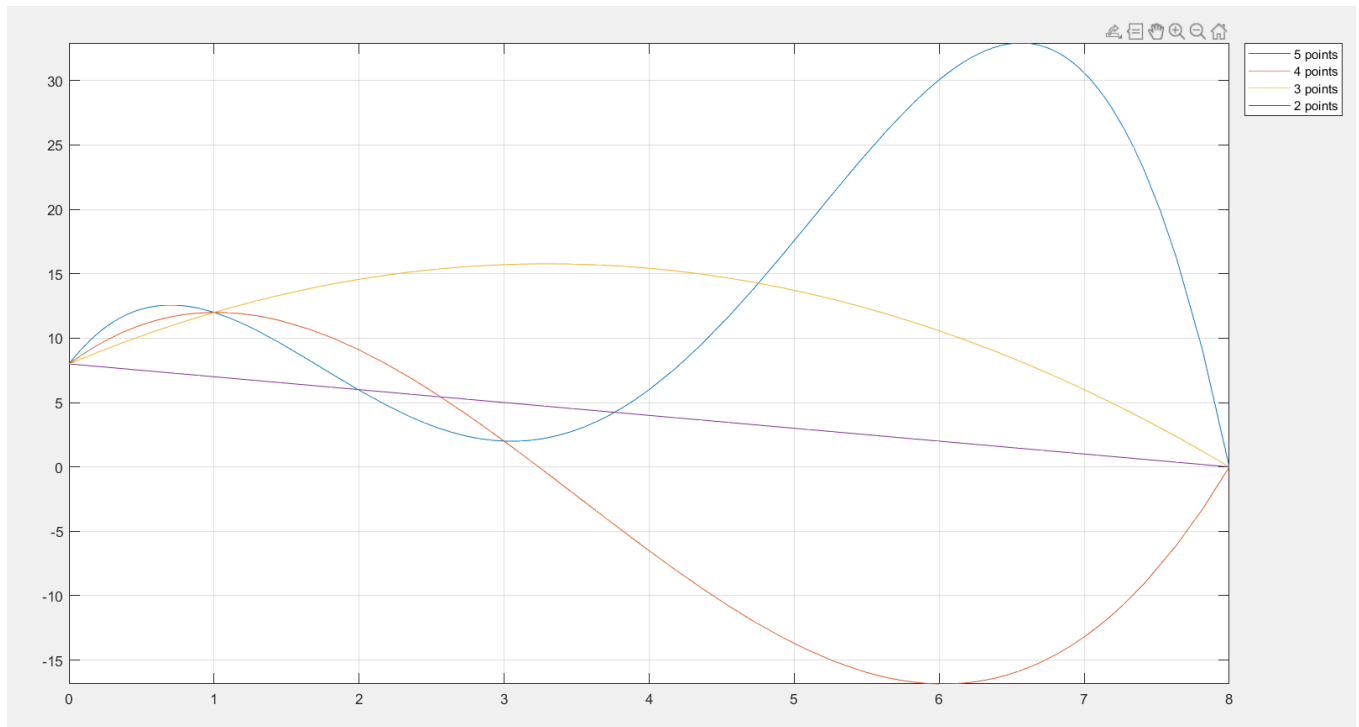
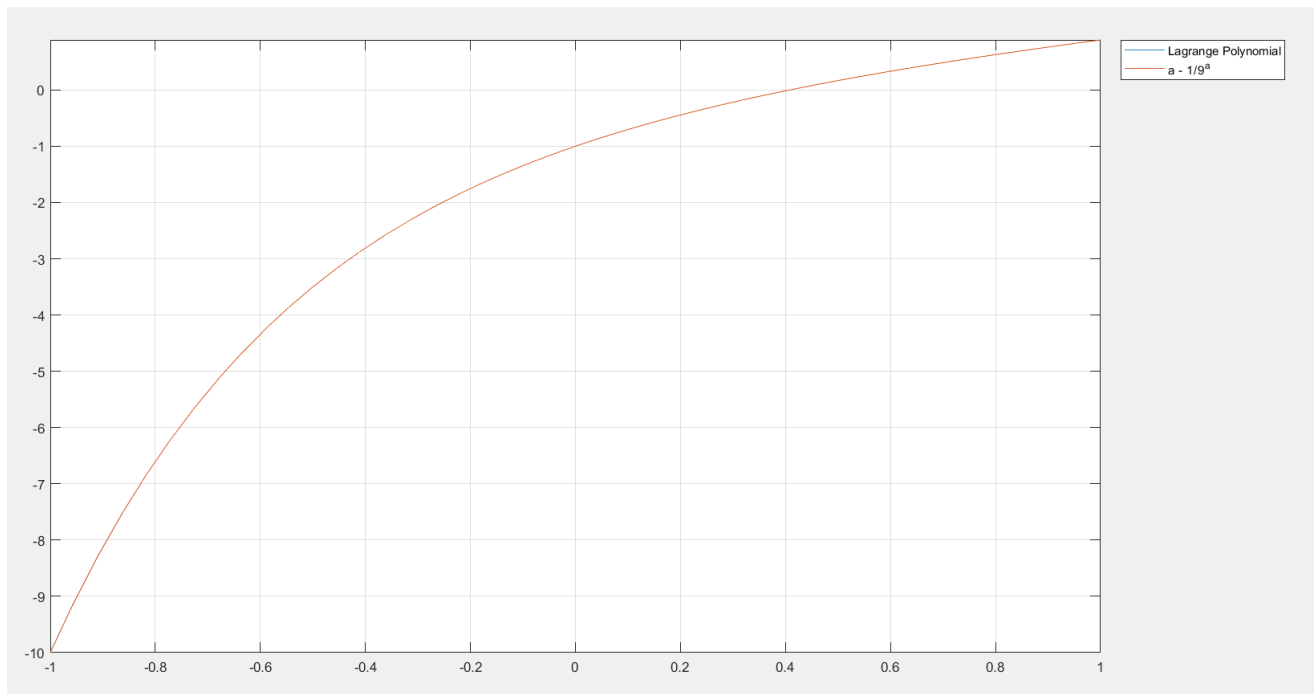


Q1)

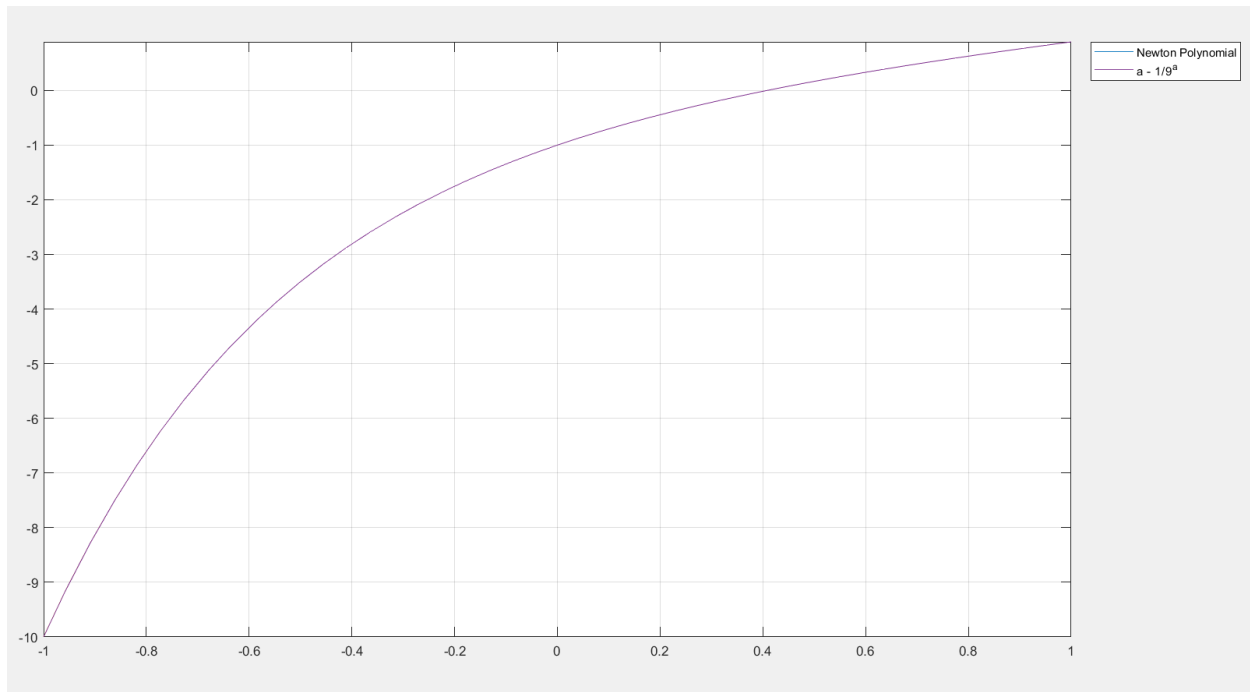


Q2)a)

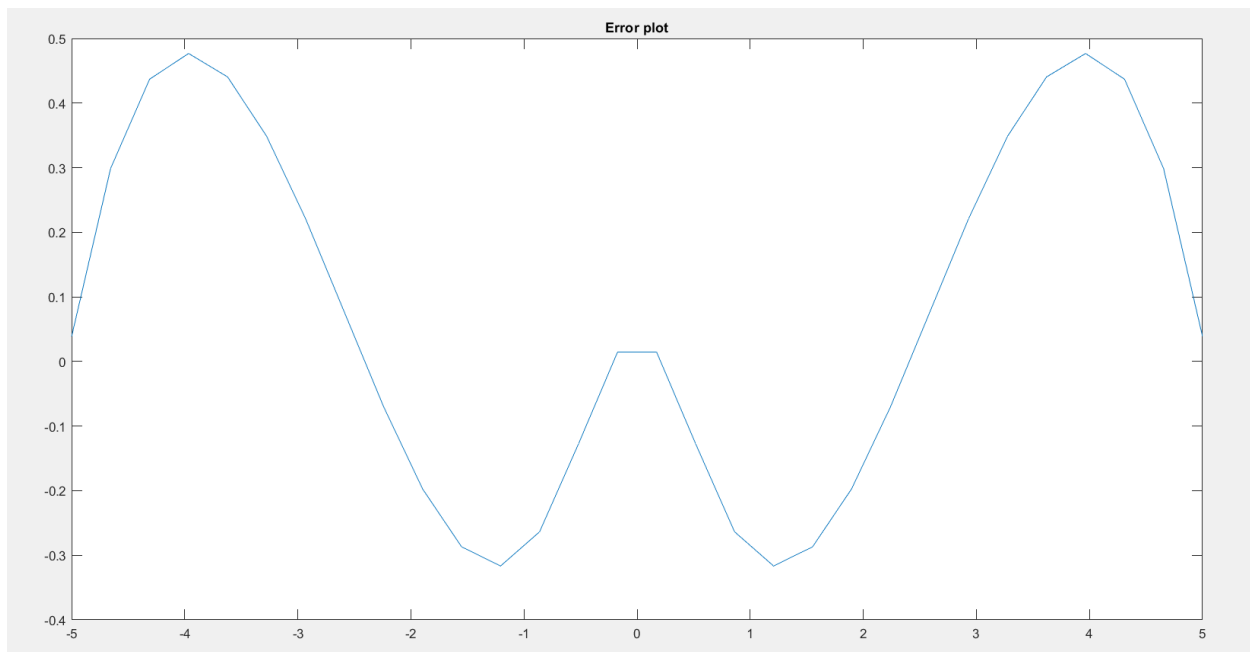
Lagrange's form of Interpolating Polynomial



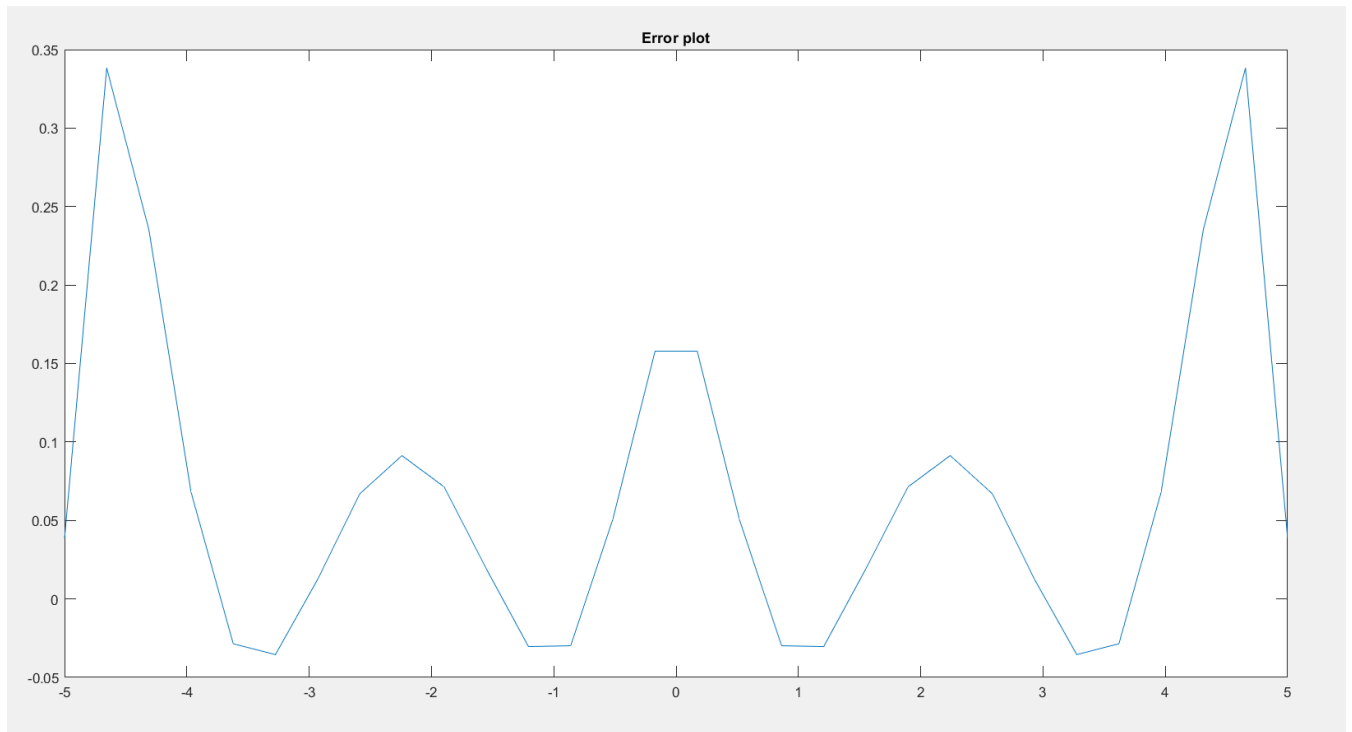
Newton's form of Interpolating Polynomial



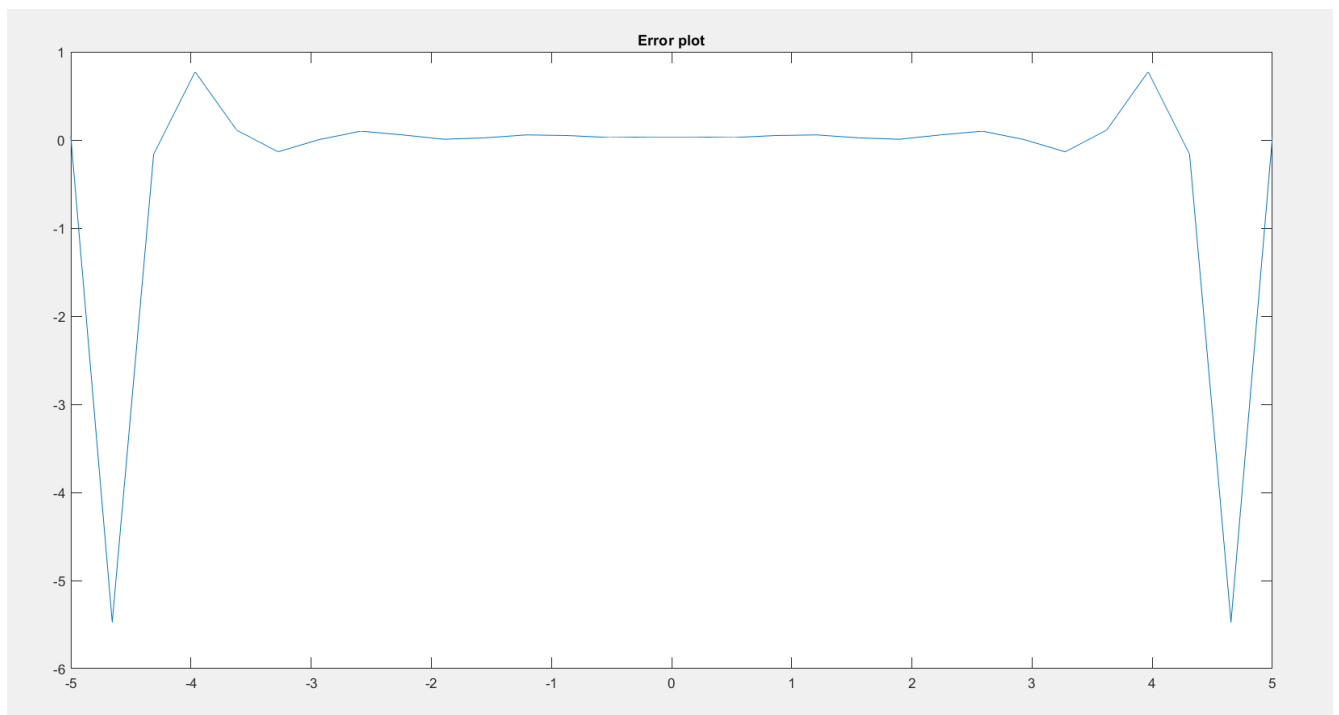
Q3) error plot for n=5



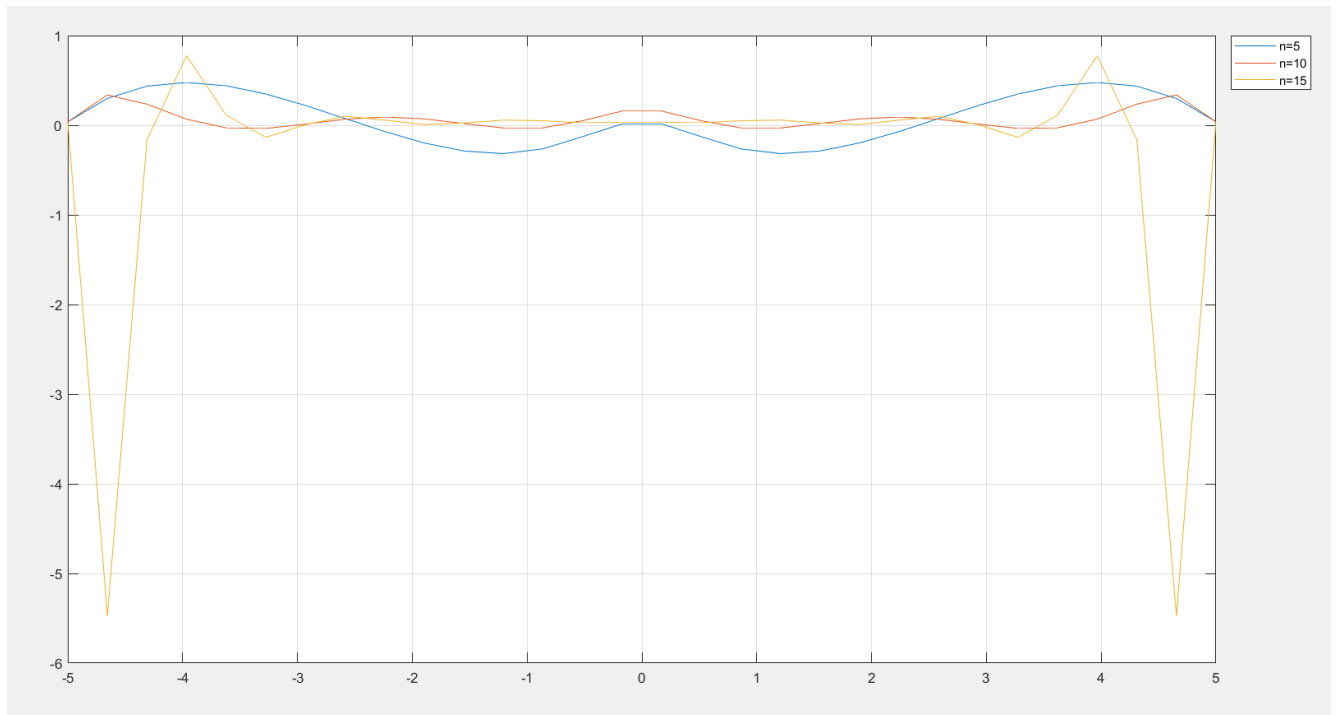
error plot for n=10



error plot for n=15

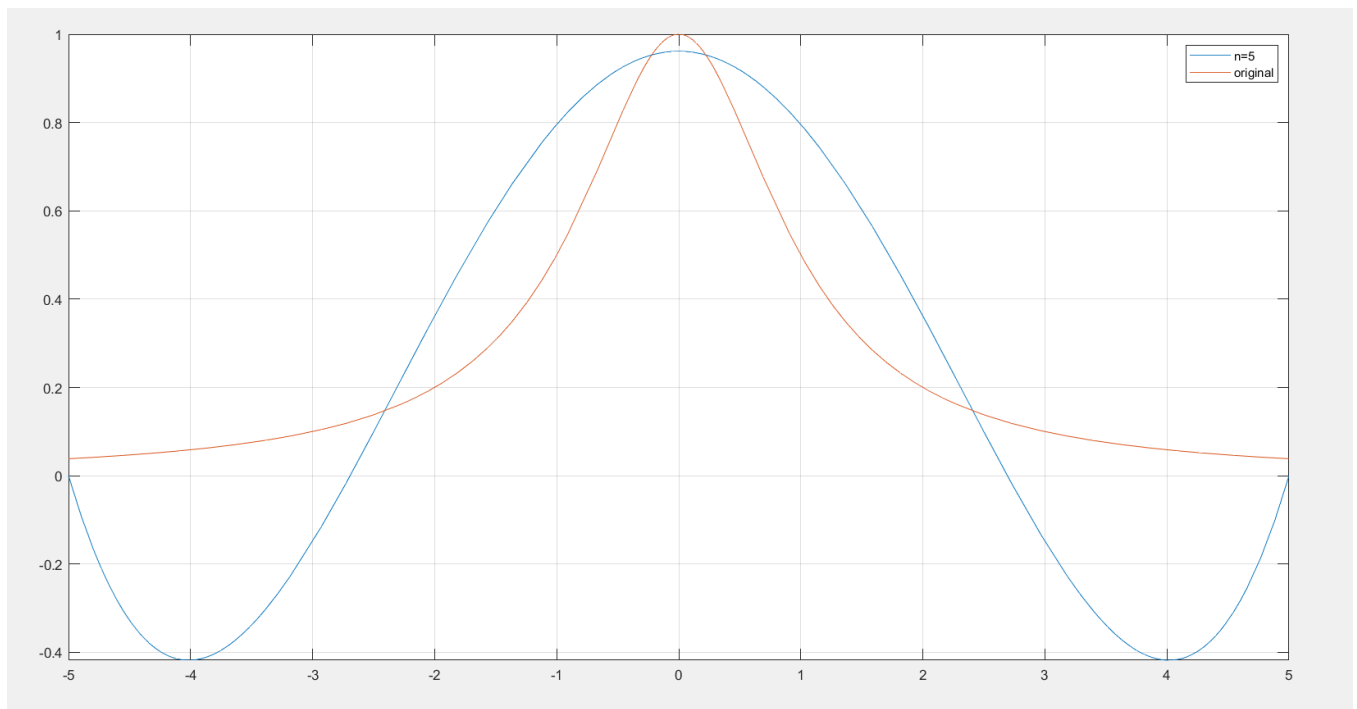


Combined Error Plot

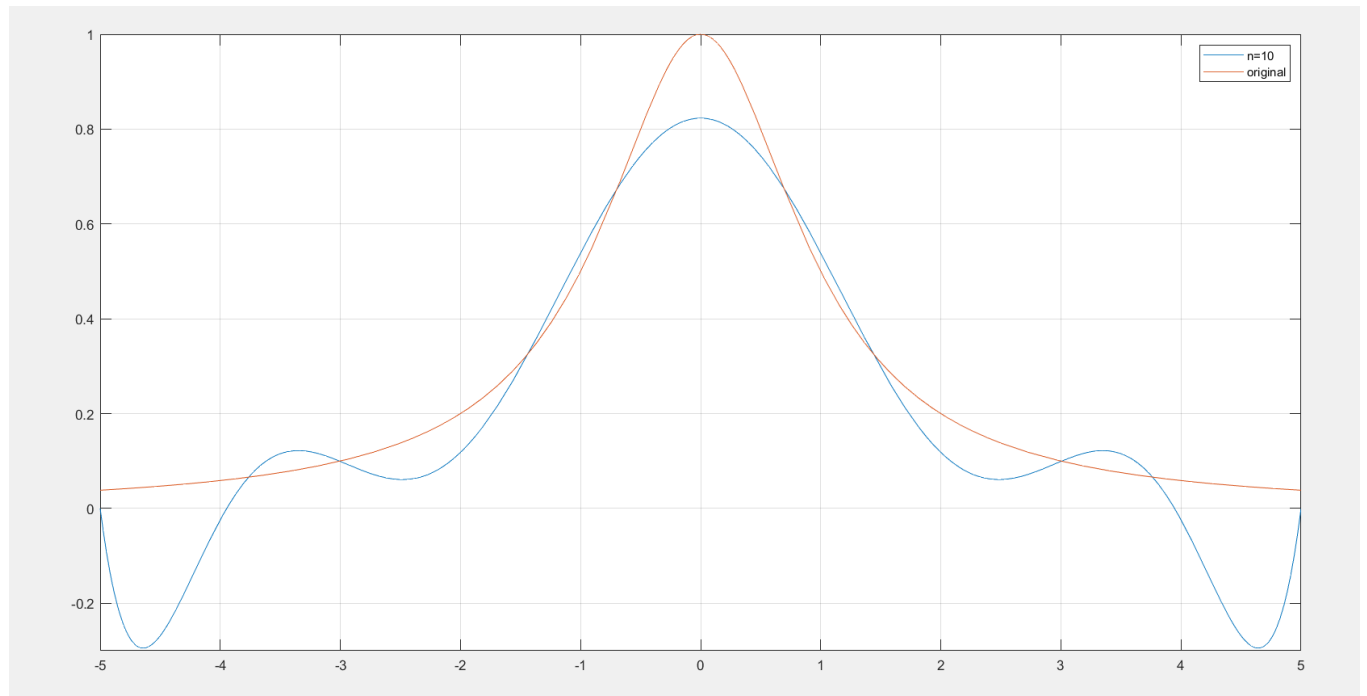


Polynomial plots

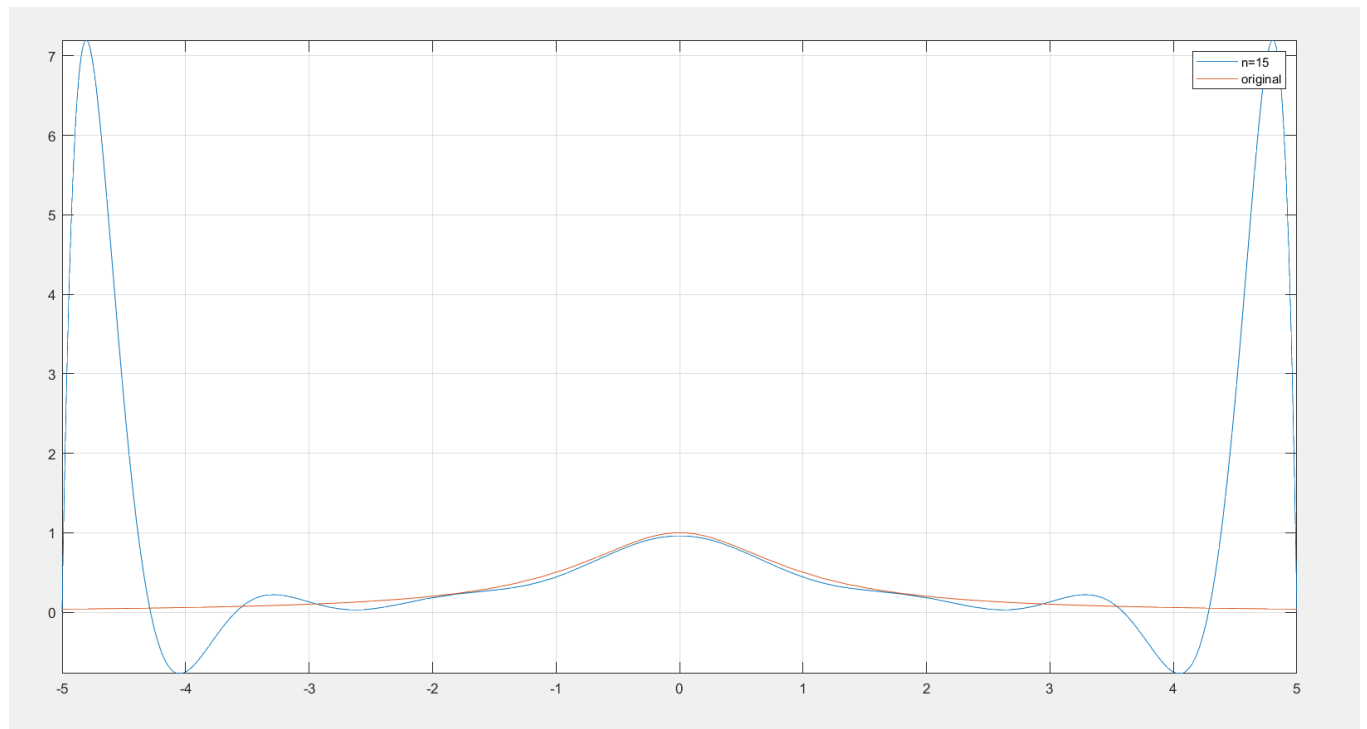
N=5



N=10



N=15



Combined Plot

