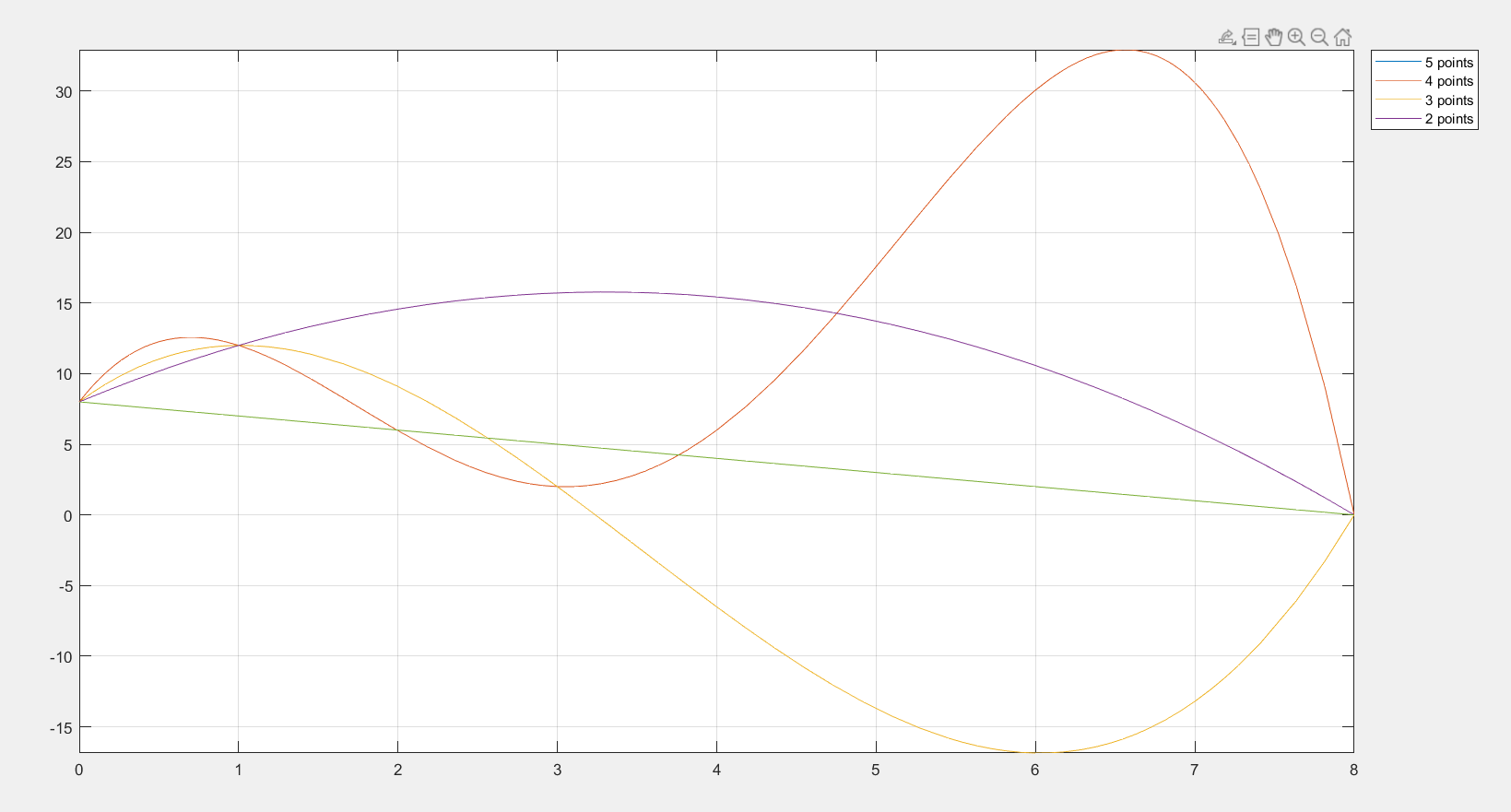
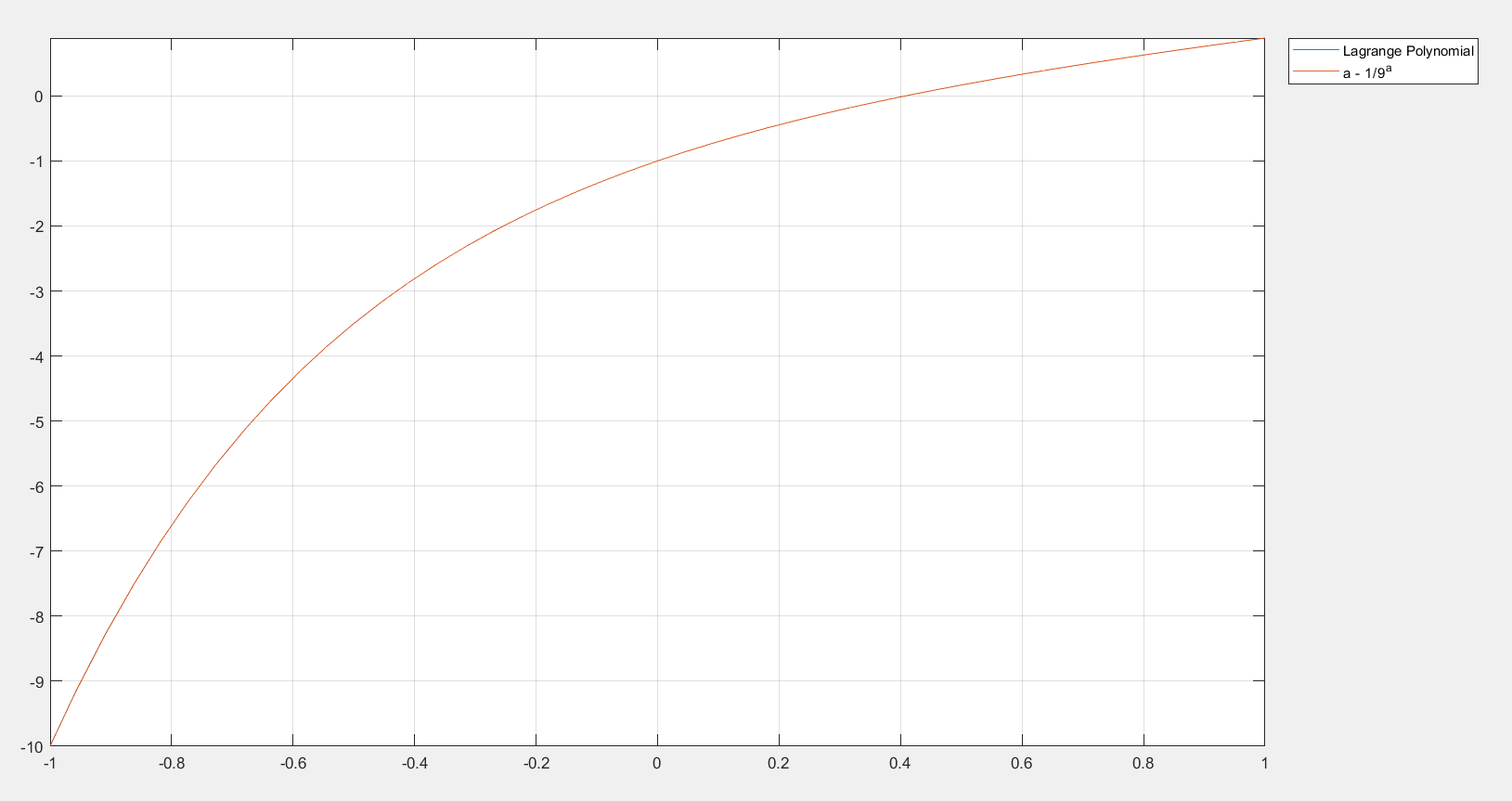
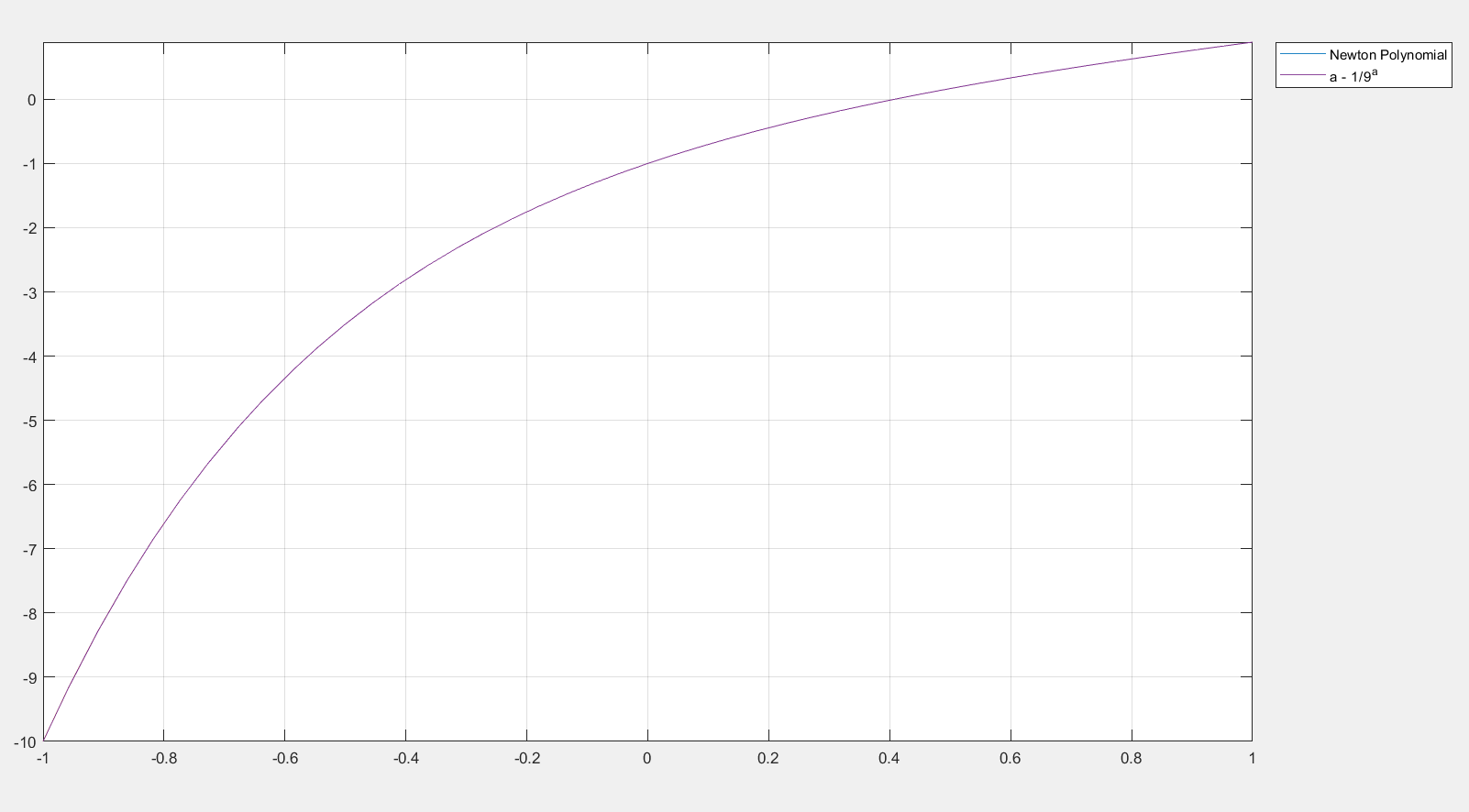
**Q1)**



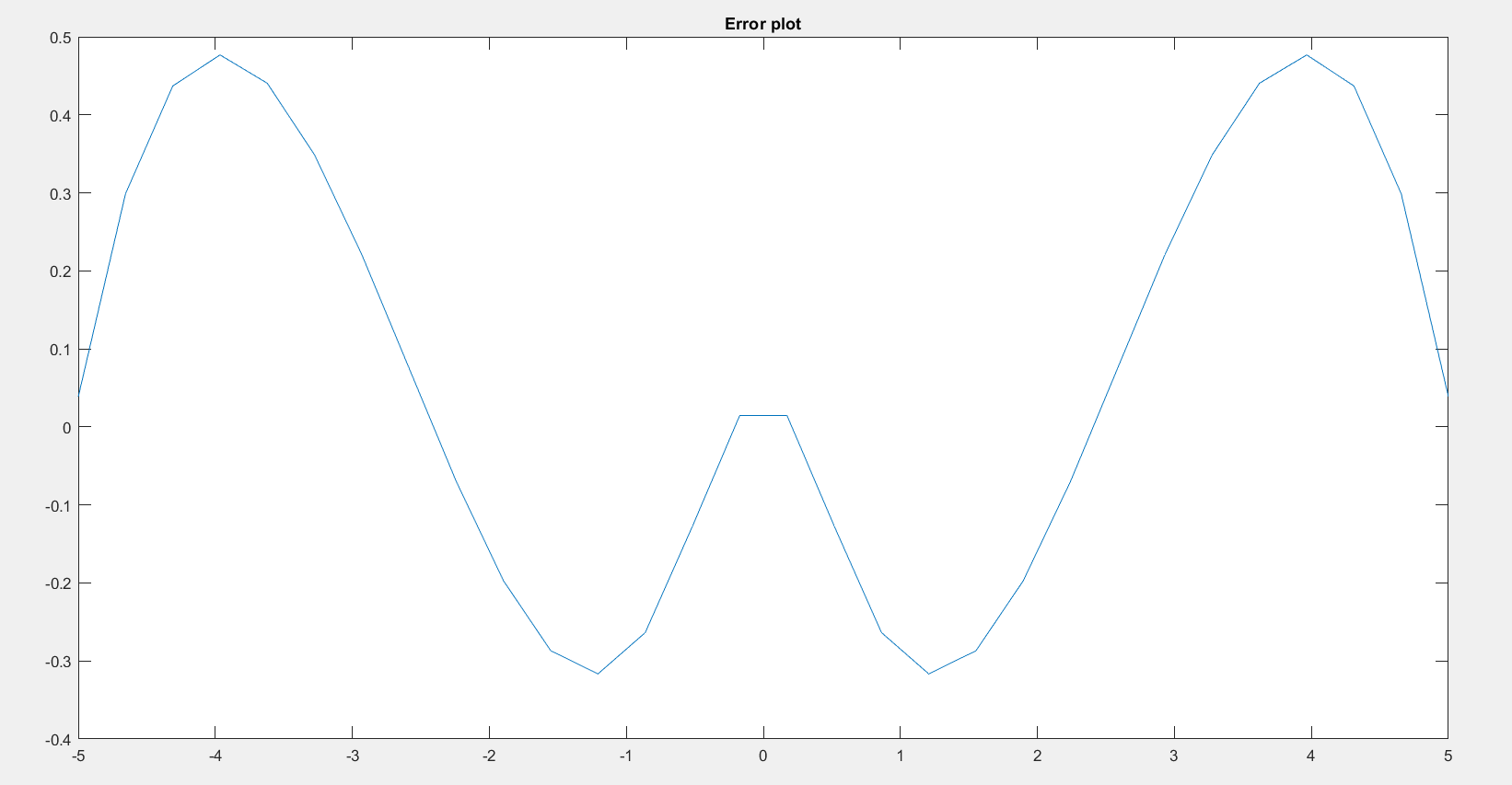
**Q2)a)**

**Lagrange’s form of Interpolating Polynomial**

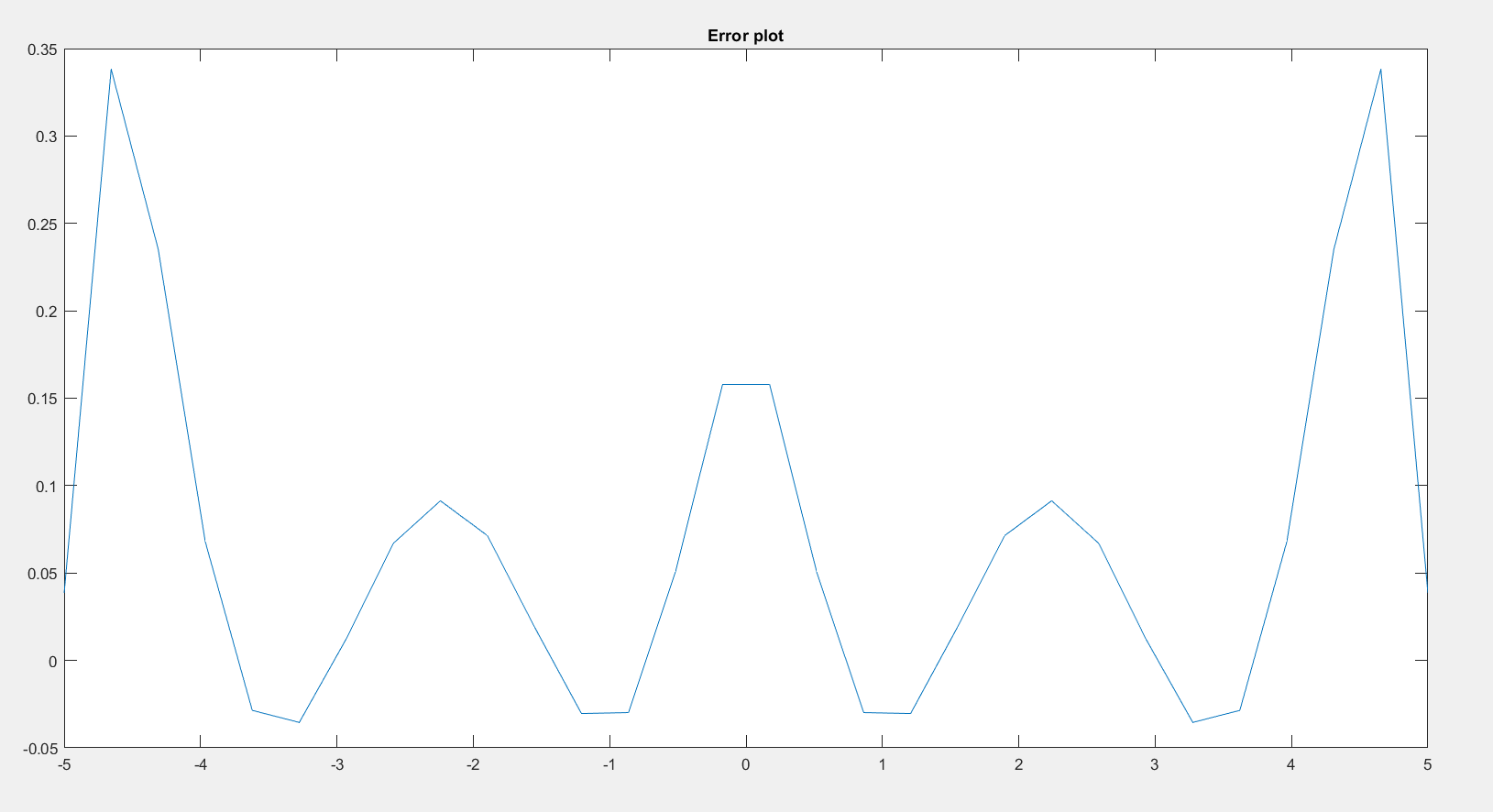
****

**Newton’s form of Interpolating Polynomial** ****

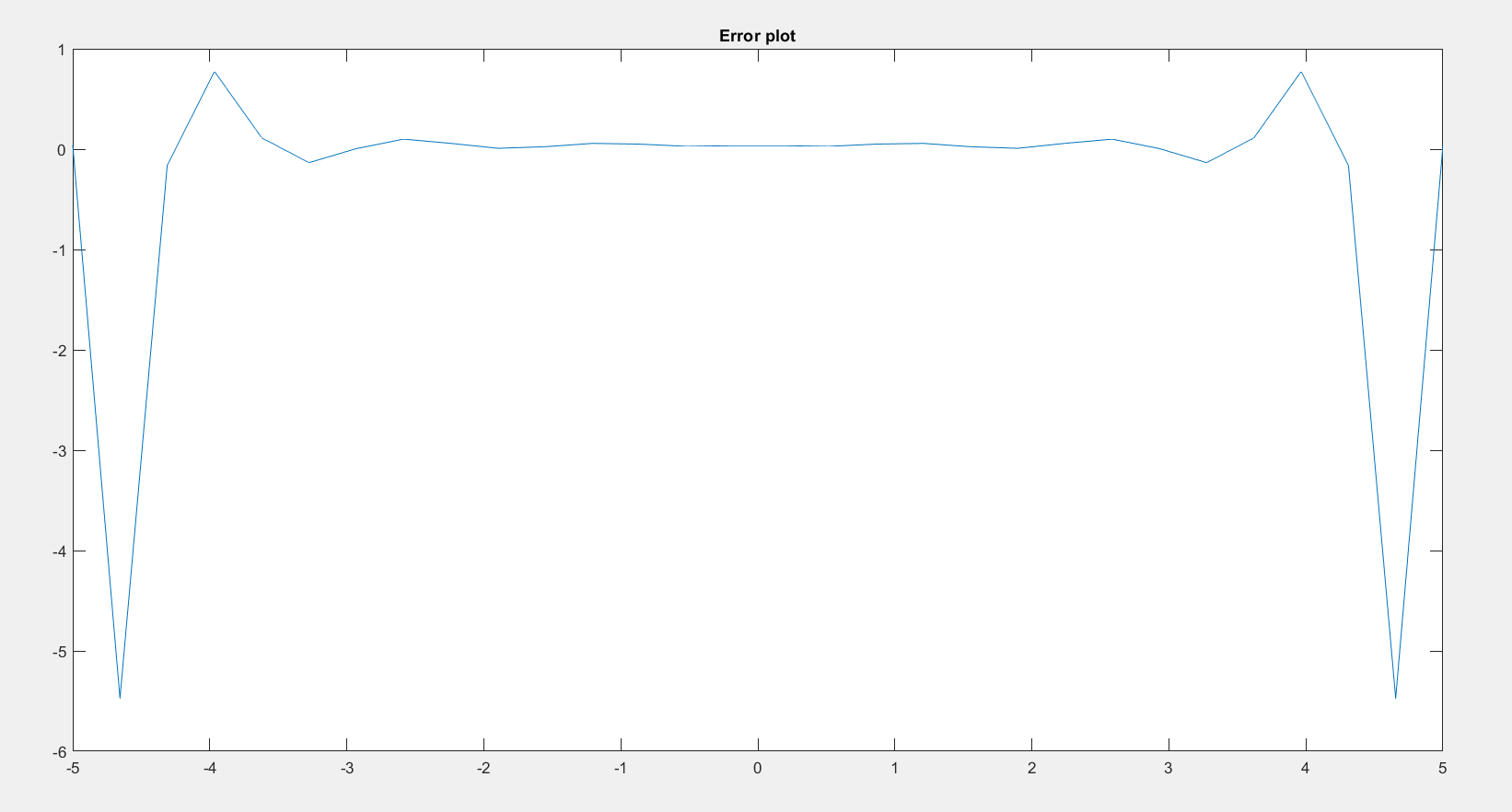
**Q3) error plot for n=5**

****

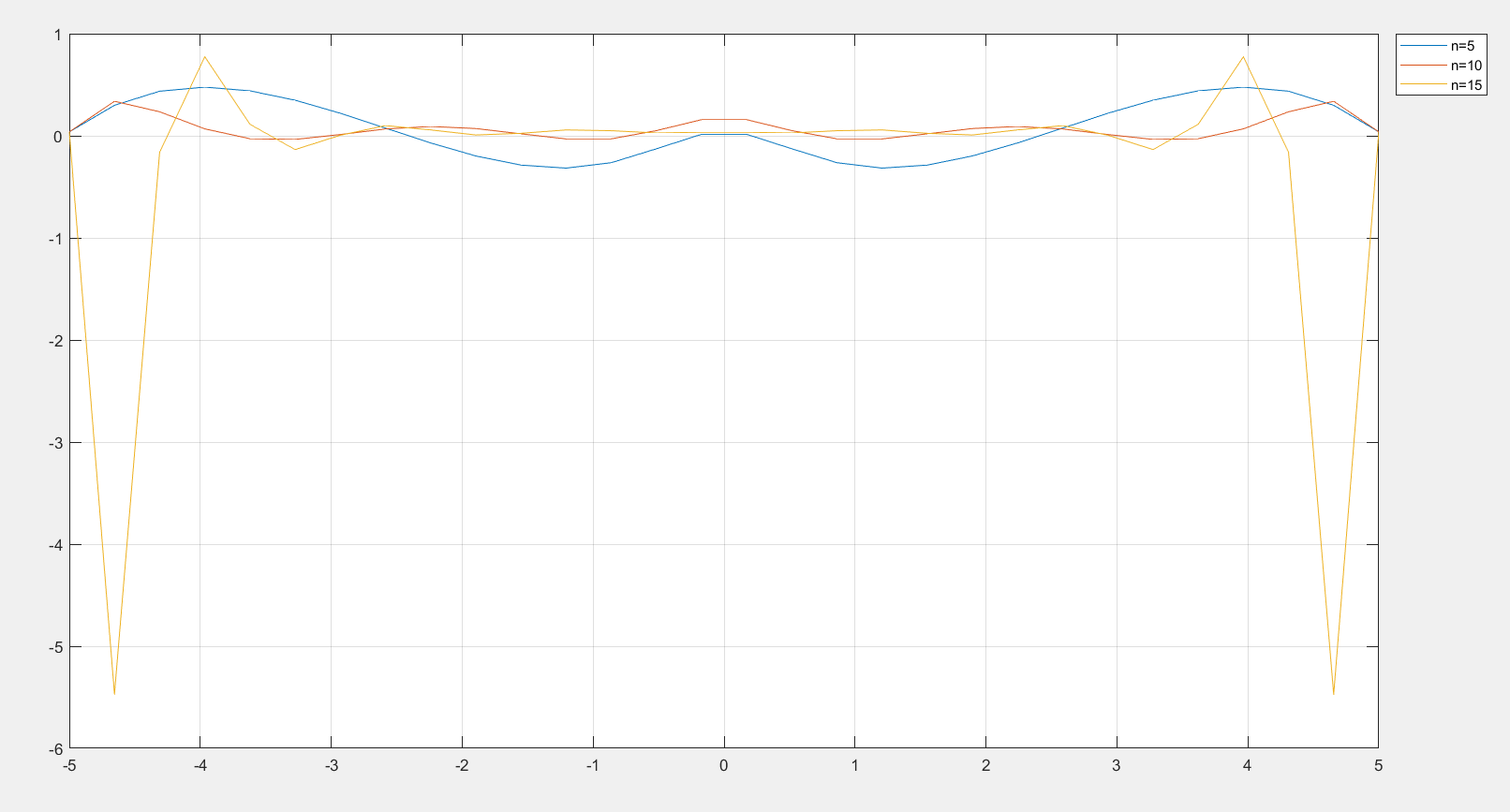
**error plot for n=10**

****

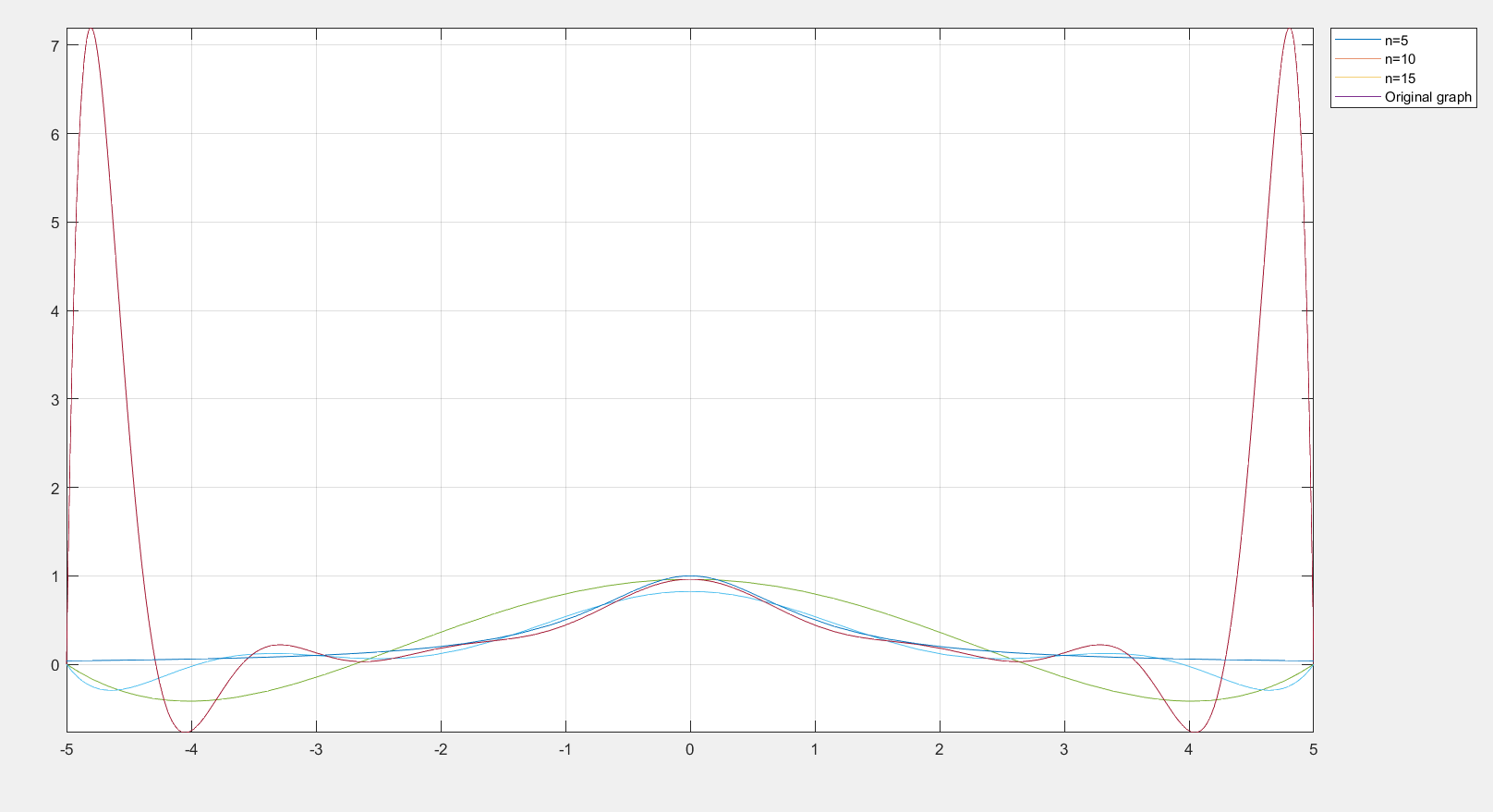
**error plot for n=15**

****

**Combined Error Plot**

****

**Polynomial plots**

****