1. Because for all

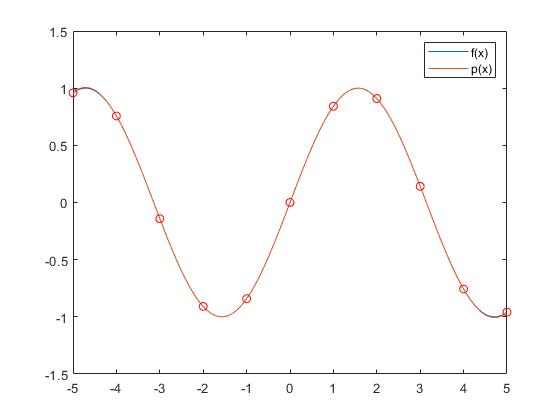
Solve the equation:

1. Because for all

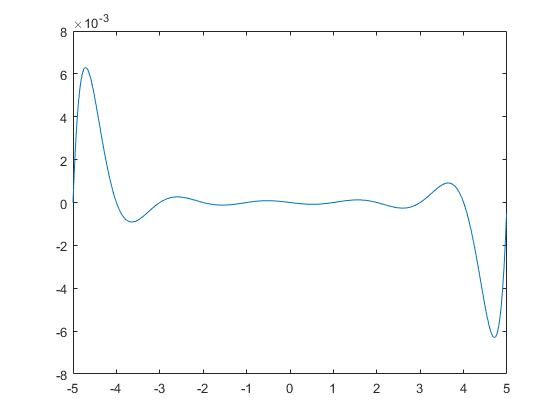
Solve the equation:

3.

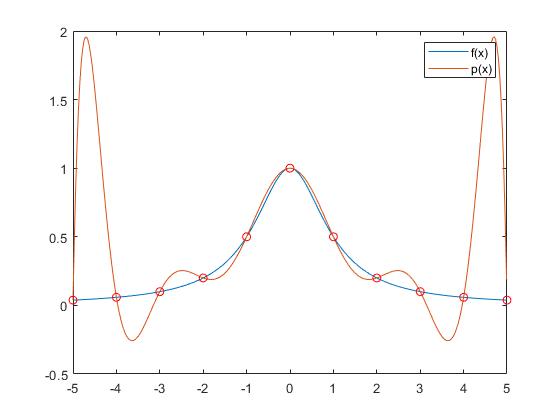
(a) the function :



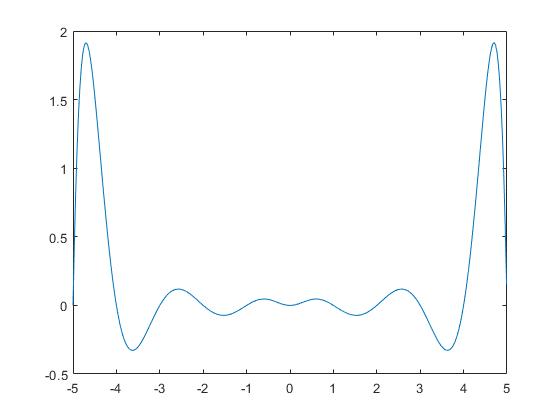
Error values:

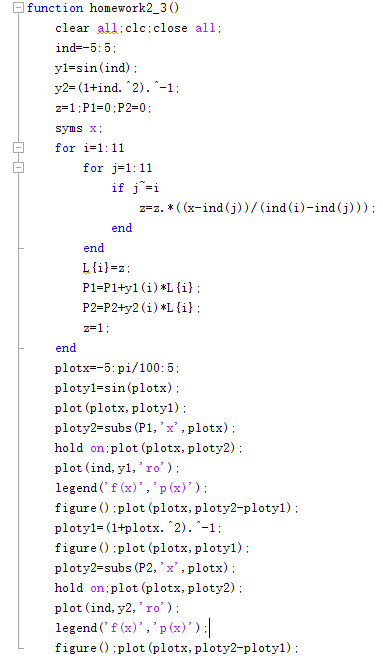


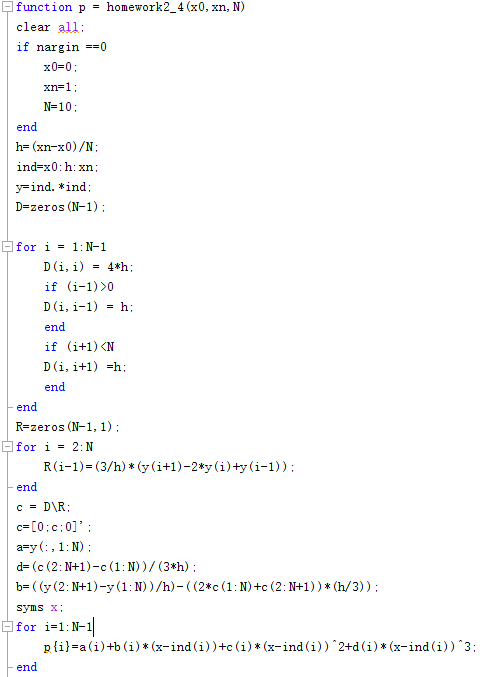
(b) the function :

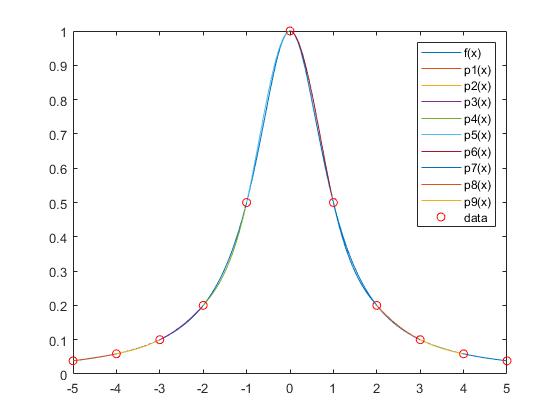


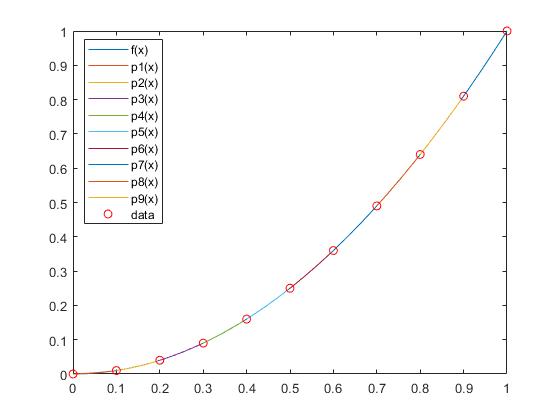
Error values:



Matlab code:

4.

5. 

6.

c =

0 1.2680 0.9282 1.0193 0.9945 1.0028 0.9945 1.0193 0.9282 1.2680

a =

0 0.0100 0.0400 0.0900 0.1600 0.2500 0.3600 0.4900 0.6400 0.8100

d =

4.2265 -1.1326 0.3039 -0.0829 0.0276 -0.0276 0.0829 -0.3039 1.1326 -4.2265

b =

0.0577 0.1845 0.4041 0.5989 0.8003 1.0000 1.1997 1.4011 1.5959 1.8155

So