Homework 11 – Due Friday, April 20

Homework is due at the beginning of class. You may work in groups of up to 5 students, and submit a single copy of the homework. Do all calculations to at least 6 decimal digits.

1. Let  Calculate the least squares linear function for 
2. Calculate the least squares quadratic function  for the same function in Exercise 1.
3. Let  Calculate the least squares quadratic function  for .
4. Calculate the first three nonzero terms of the trigonometric polynomial that approximates on 