Computational Astrophysics

Exercises 4

April 3, 2019

1. Implement a routine that generates Lagrangean interpolating polynomials of arbitrary degree n based on $n+1$ data points. Then reproduce the Figure shown in class for $f(x) = \frac{1}{25x^2+1}$ in the interval $[-1, 1]$ with polynomials of degrees $n = 6$, $n = 8$, $n = 10$ and $n = 12$.

Happy Coding !!