

Introduction to Scientific Computing Software HW3

Student ID : < **Student ID** >

Write a **MATLAB script file** to solve following problem.

1. Beating (Plot three functions in the same figure)

(a) $\sin(100x) + \sin(120x)$: (in red solid line with square markers).

(b) $2 \cos(10x)$: (in blue dotted line with “o” markers).

(c) $-2 \cos(10x)$: (in yellow dashed line with “+” markers).

Features:

- Figure title : $100\text{Hz} + 120\text{Hz} \Rightarrow f_{beat} = 20\text{Hz}$.
- Location of the legend : West-South of the figure.
- Range of x : $[0, 2\pi]$.