

In The Name of GOD

homework #1 report

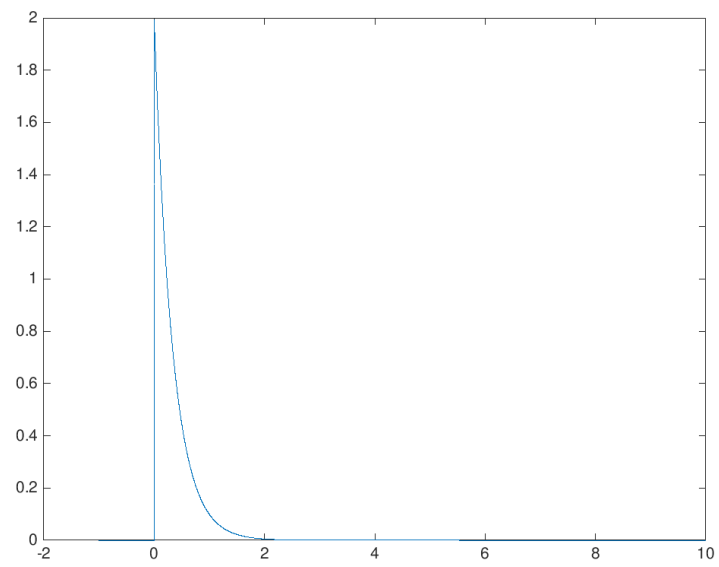
Amir.H Pirhosseinloo

9531014

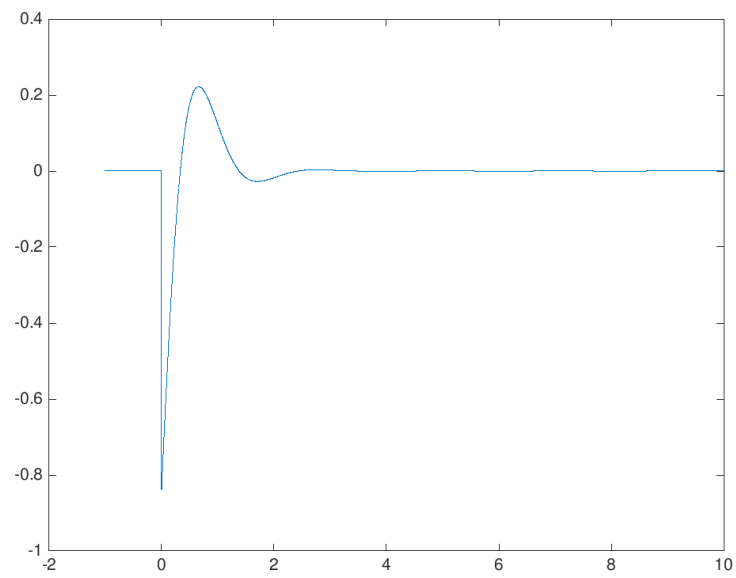
notes: codes are available in code.mat file inside the report directory.

question 4 function is in q4.mat

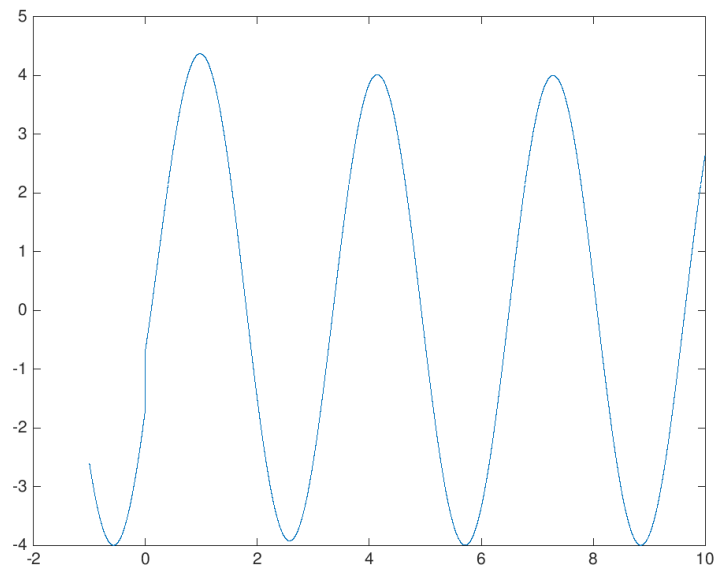
Q1-part1:



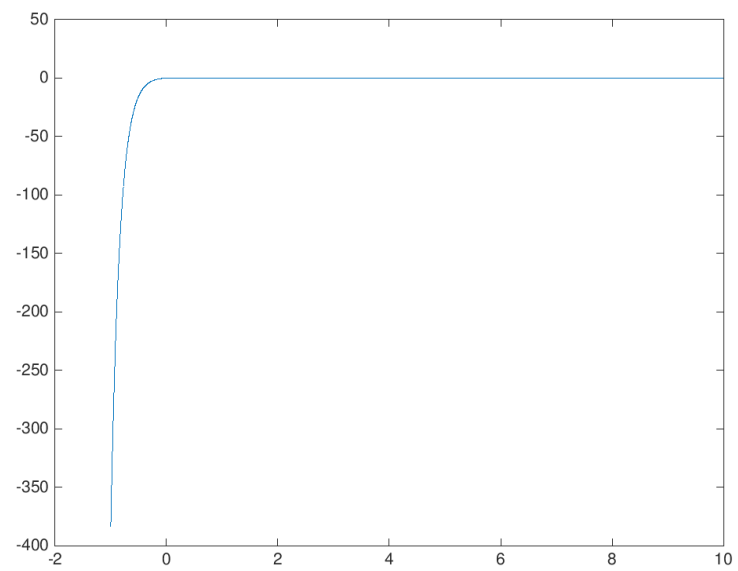
Q1-part2:



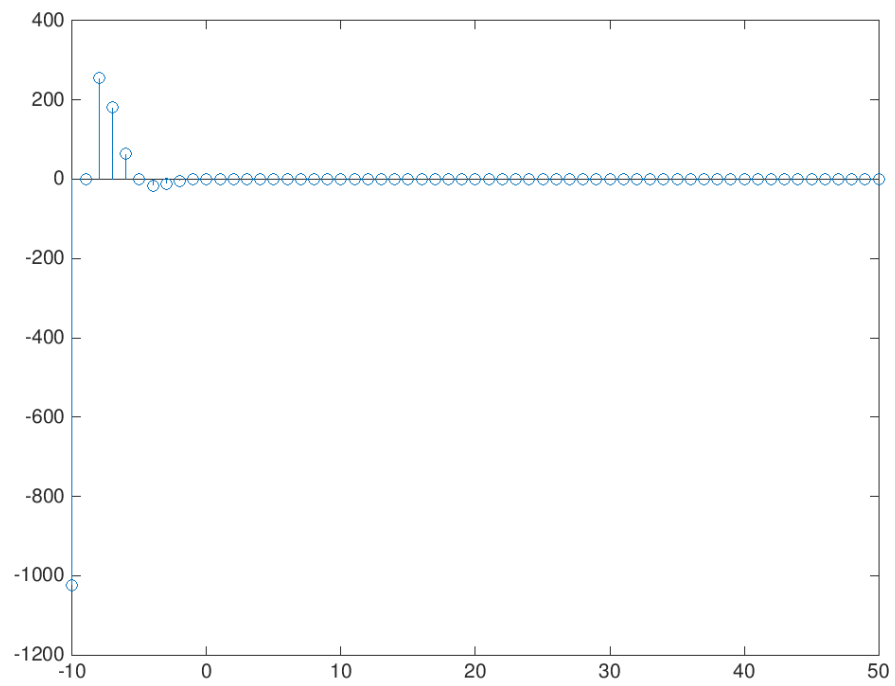
Q1-part3:



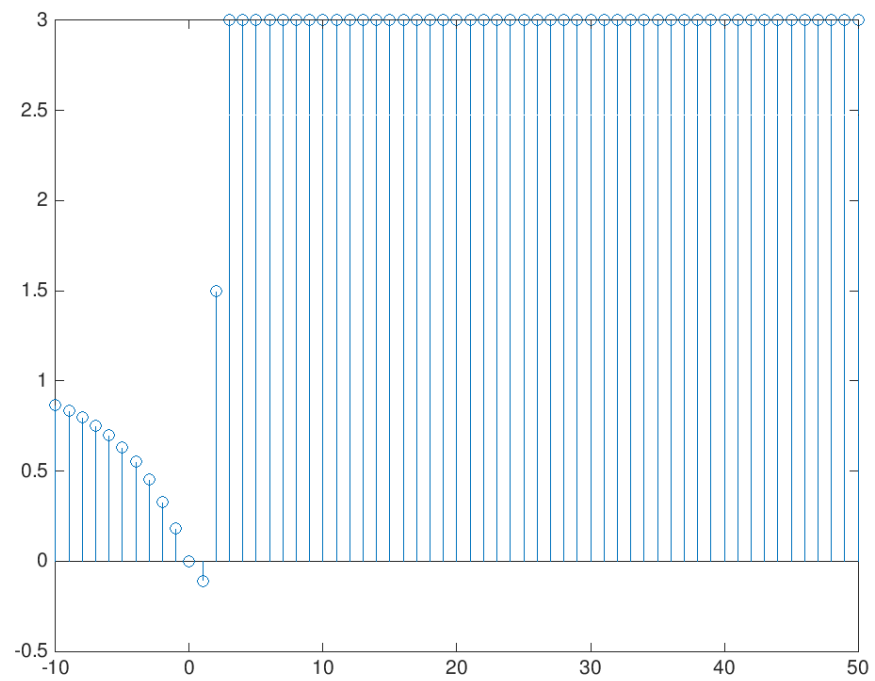
Q1-part4:



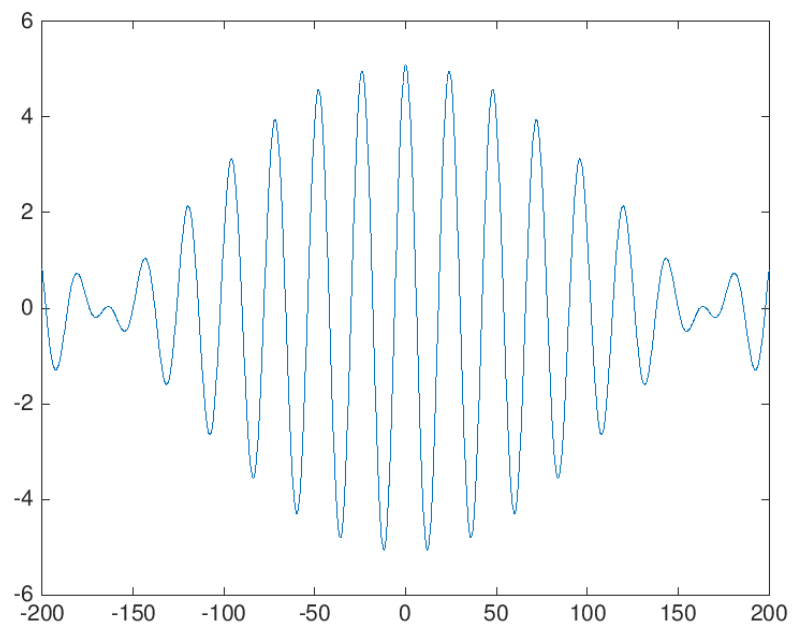
Q2-part1:



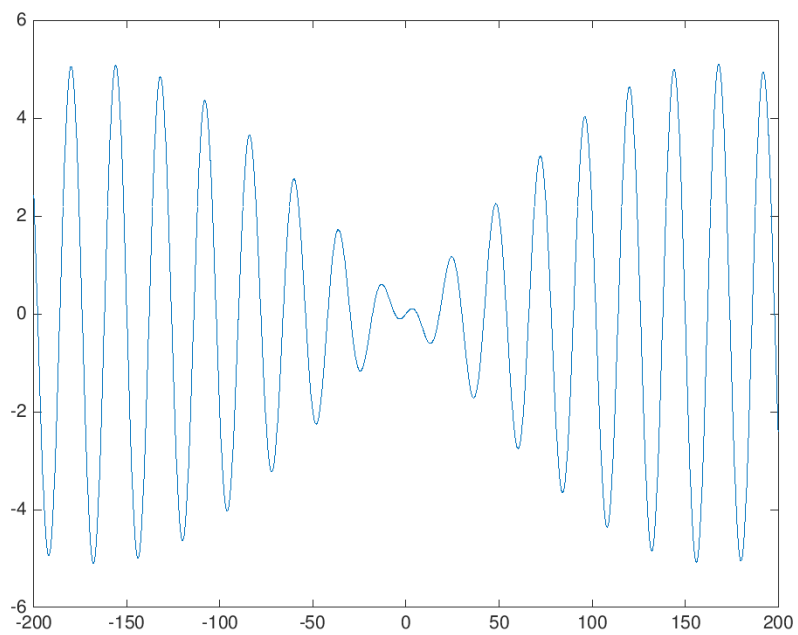
Q2-part2:



Q3-part1: real part – $m = -0.0190$



Q3-part2: imaginary part



Q4: code is in q4.mat

Q5-part1:

هر چه قدر فرکانس بیشتر می شود، سرعت موسیقی بیشتر می شود.

$f_s = 1000$: no sound

$f = 40000$: hearing sound

$f = 100000$: high speed in playing sound

Q5-part2:

