

Family Name with initials:

UT email address:

Student id

Signal Processing: individual assignment 2

Part 1: The first brush with Matlab

Question 1 and 2:

Time (in seconds) needed for matrix-vector multiplication:

	naïve implementation	Matlab implementation
1 st run		
2 nd run		

Question 3:

Describe in a few words what the colon operator produces if you execute the code in the left column. (We are asking a general description of the results; not what the results are in these specific examples):

D=1:6	
E = 0:.1:.5	

Question 4:

Describe in a few words what the colon operator produces. (We are asking a general description of the results; not what the results are in these specific examples):

A(3, :)	
A(:, 3)	

Part 2: Plotting x-y data

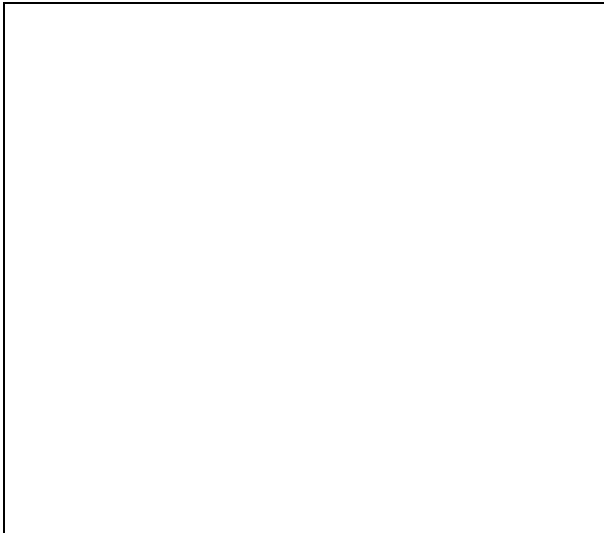
Question 5:

Inspect after each line what happens with the graph and its properties if you execute it, and describe this as comment after each line:

<code>hp.Color = 'r';</code>	
<code>hp.LineWidth = 1.5;</code>	
<code>hp.LineStyle = '--';</code>	
<code>hp.Marker='o';</code>	
<code>hp.LineStyle='none';</code>	

Question 6:

Insert the figure by clicking within the area below:



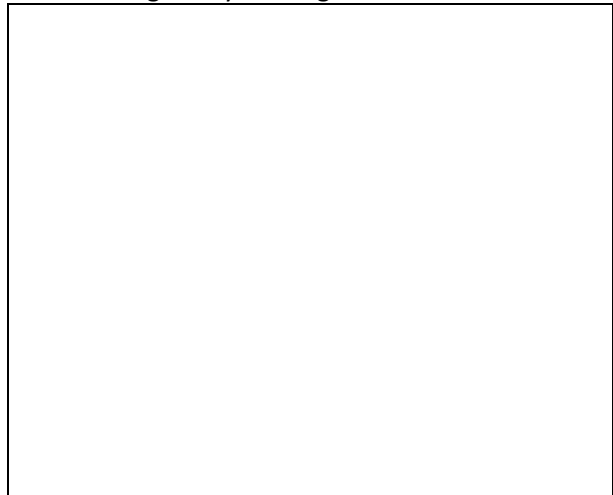
Part 3: Plotting functions of time

Question 7:

t_N (s)	
Δ (s)	

Question 11:

Insert the figure by clicking within the area below:

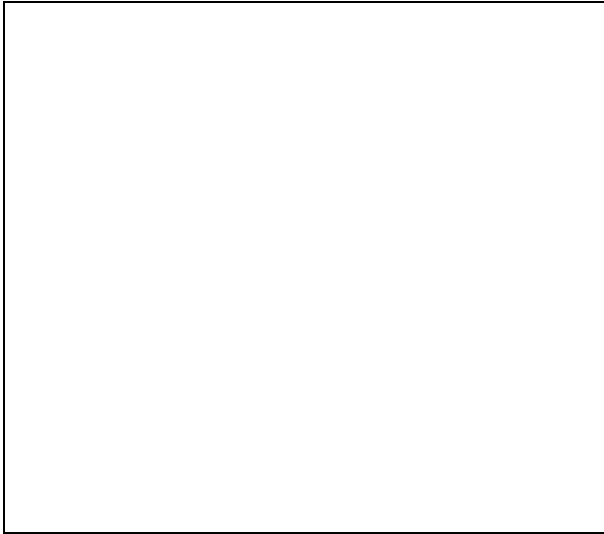


Part 4+5: Plotting signals and calculating mean and RMS

Question 13:

period T :	
Nr of samples in s :	
Nr of samples in one period:	
Sampling period:	

Insert the figure by clicking within the area below:



Copy and paste your m-code from your m-file into the box on the next page.

Insert m-code: