

comments & answers on the graphs

1 - ensemble mean : we note that it approaches zero as we know it is a cos function and theoretically we integrate over a complete period which has to be zero at the end

2-3D graph : we note that it consists of sinusoidal functions which are merged with each other so we see it takes the shape of sin and cos to cover the whole space among the three

3 - yes due to the values we get, we note that both of them equal zero or approaches it as we expected in our theoretical calculations as we integrate over a complete period which has to be zero at the end

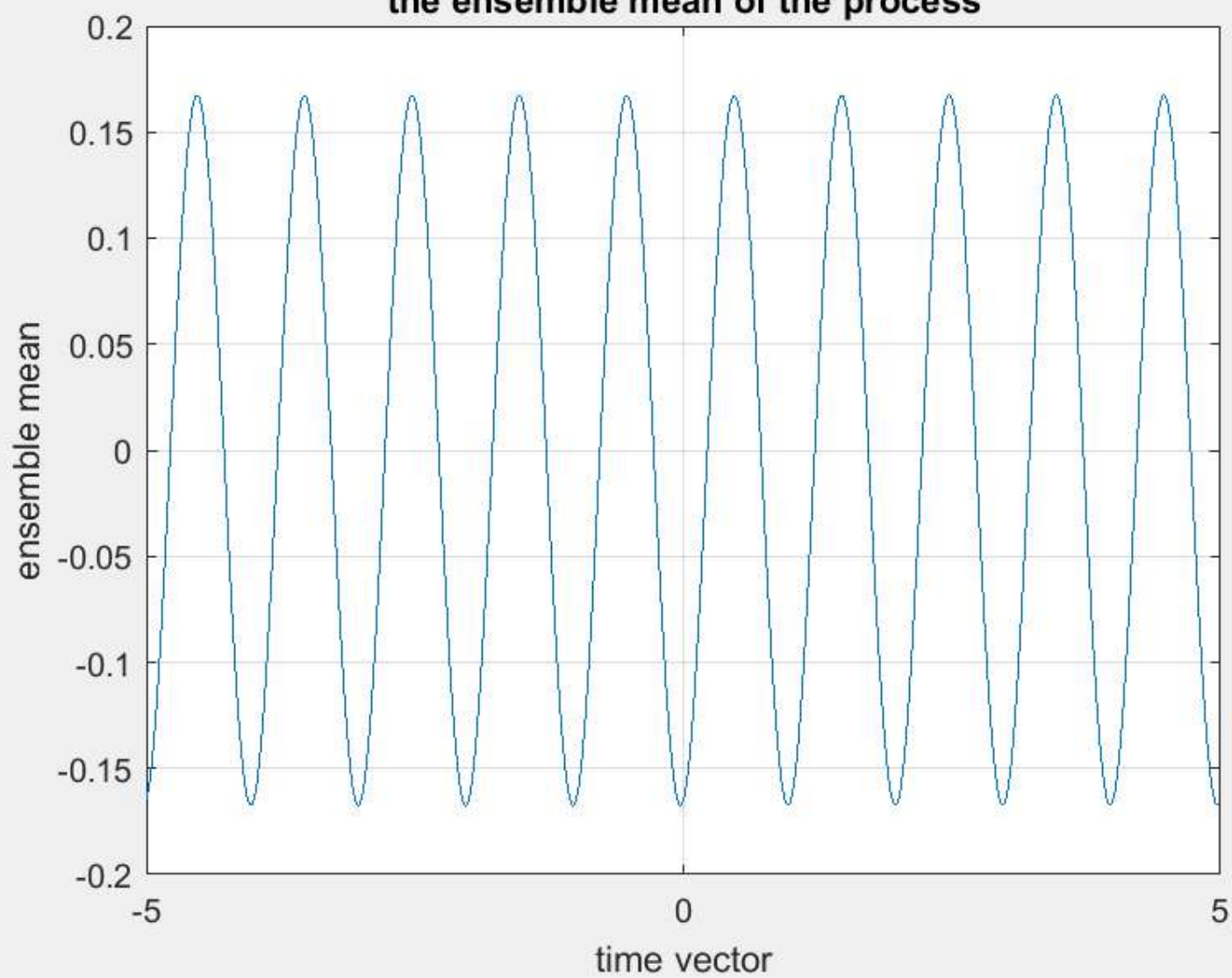
- if we always equilibrate among the ensemble mean and ACF and time mean and ACF so it's periodic

4 - yes, there is a relation between them both of them take the value of cos function for ensemble we get many cos functions as we change τ to cover all sample functions it shows the relation between the values of the sample function and how they change, for the time we get a value as we work on a specific sample function

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the ensemble mean of the process



Plot M samples

Calc / Plot ensemble mean

0130	-0.0070	-0.0271	-0.0471	-0.0668	-0.0868
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Calc time mean of N

-8.32e-19

Calc ACF of i & j

7.545

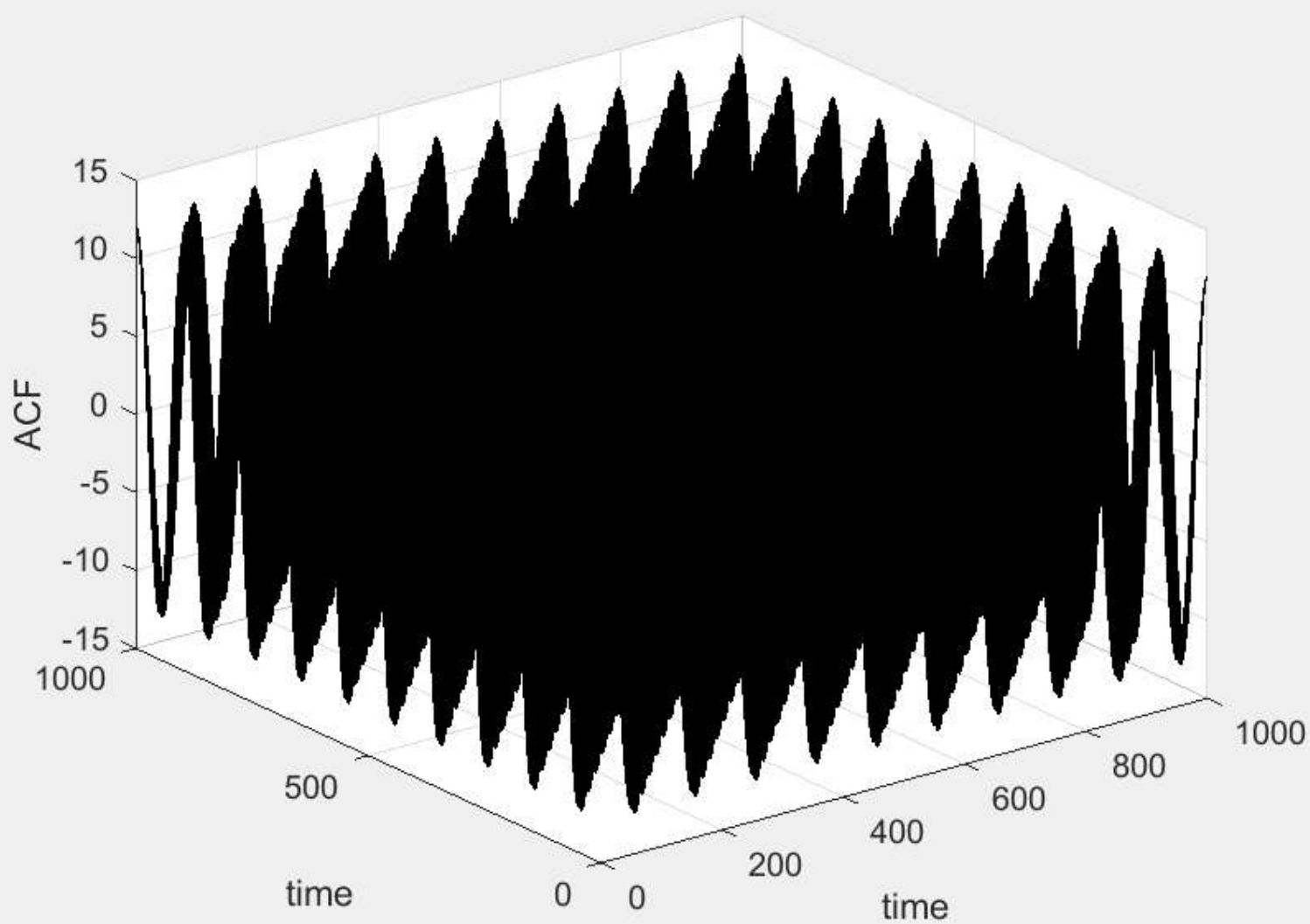
Calc time ACF of N

0.00625

Calc total average power

6250

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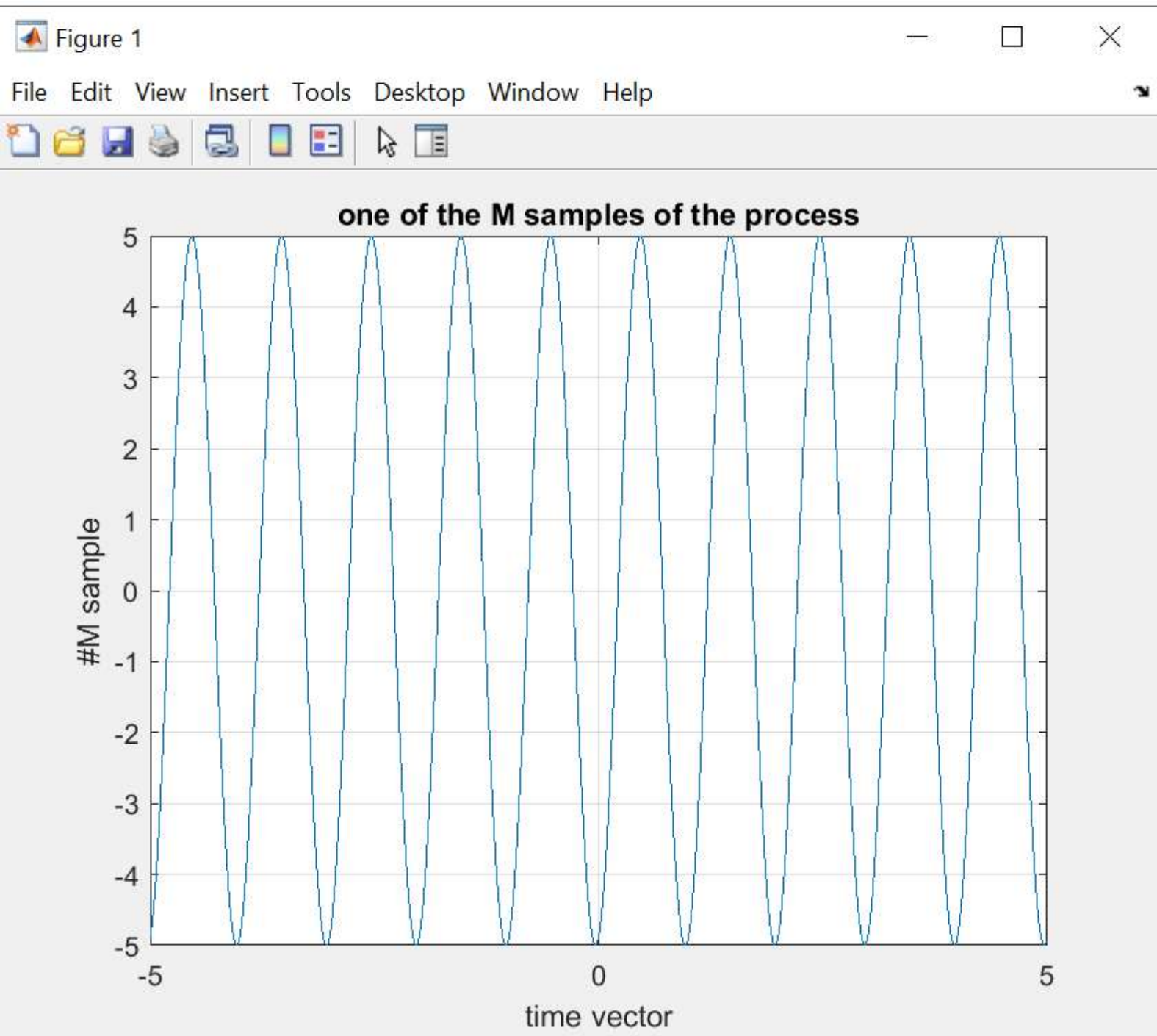
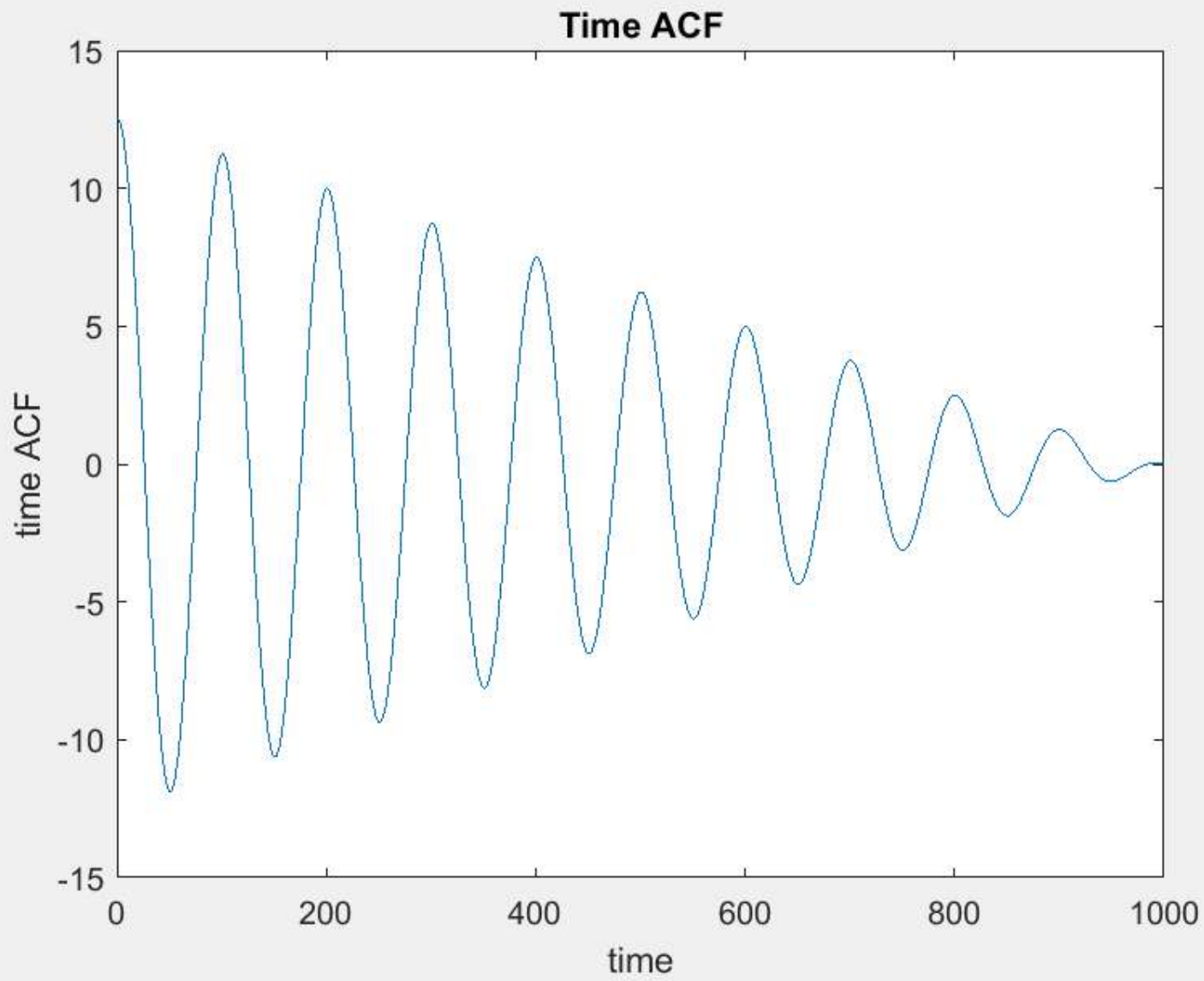
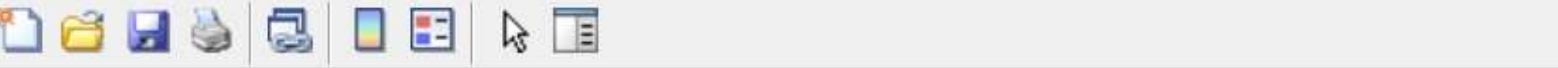


Figure 1

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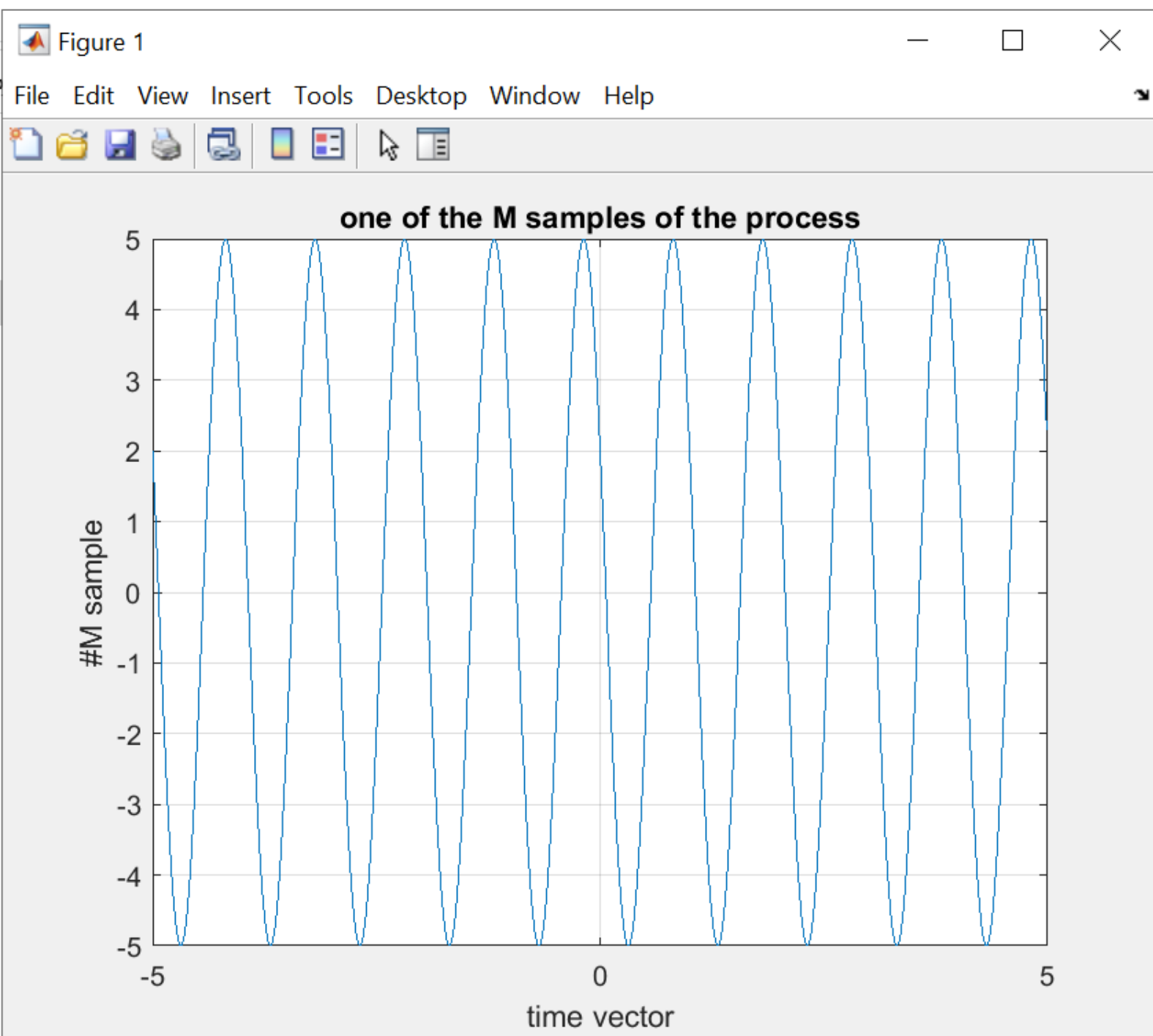
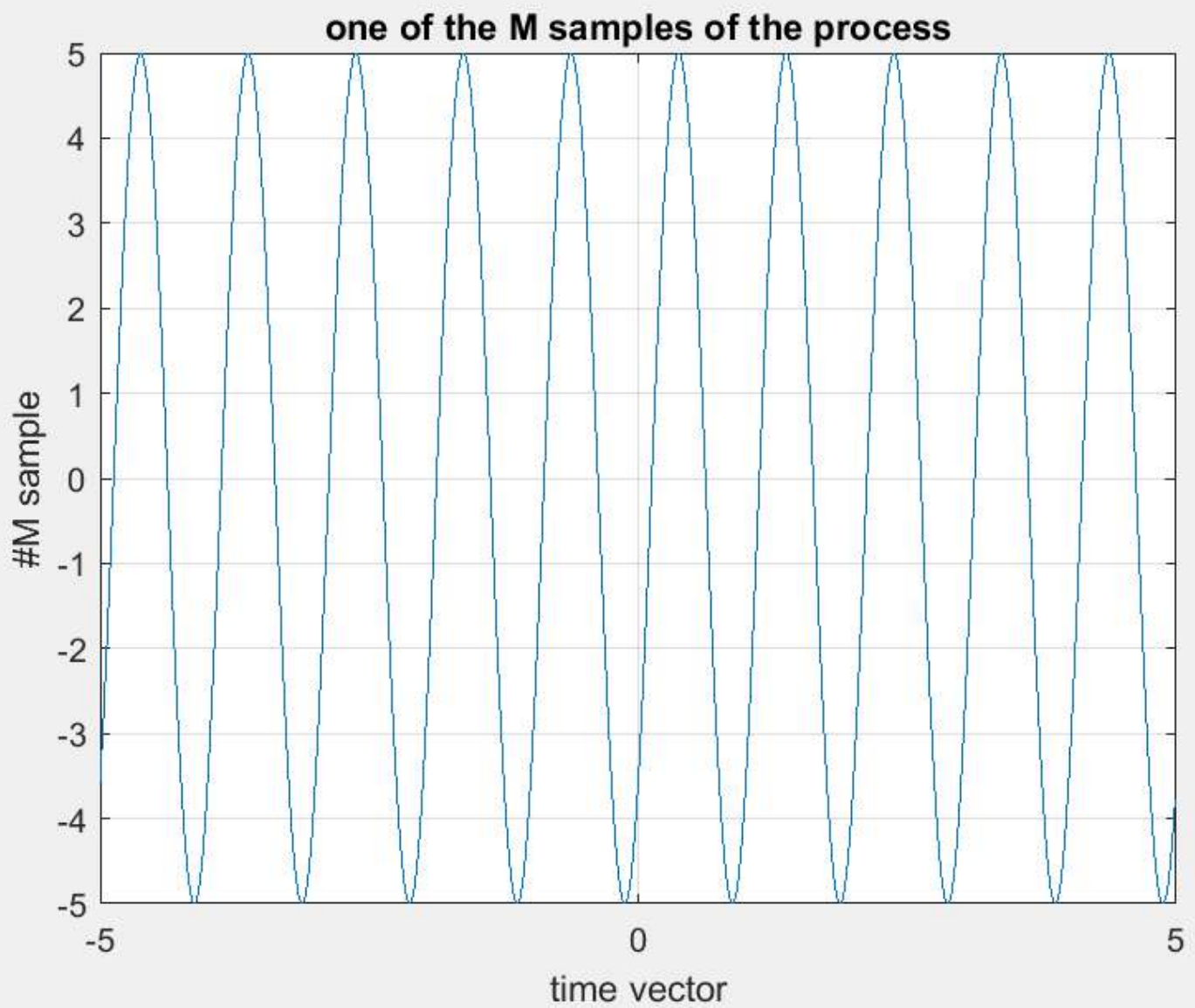
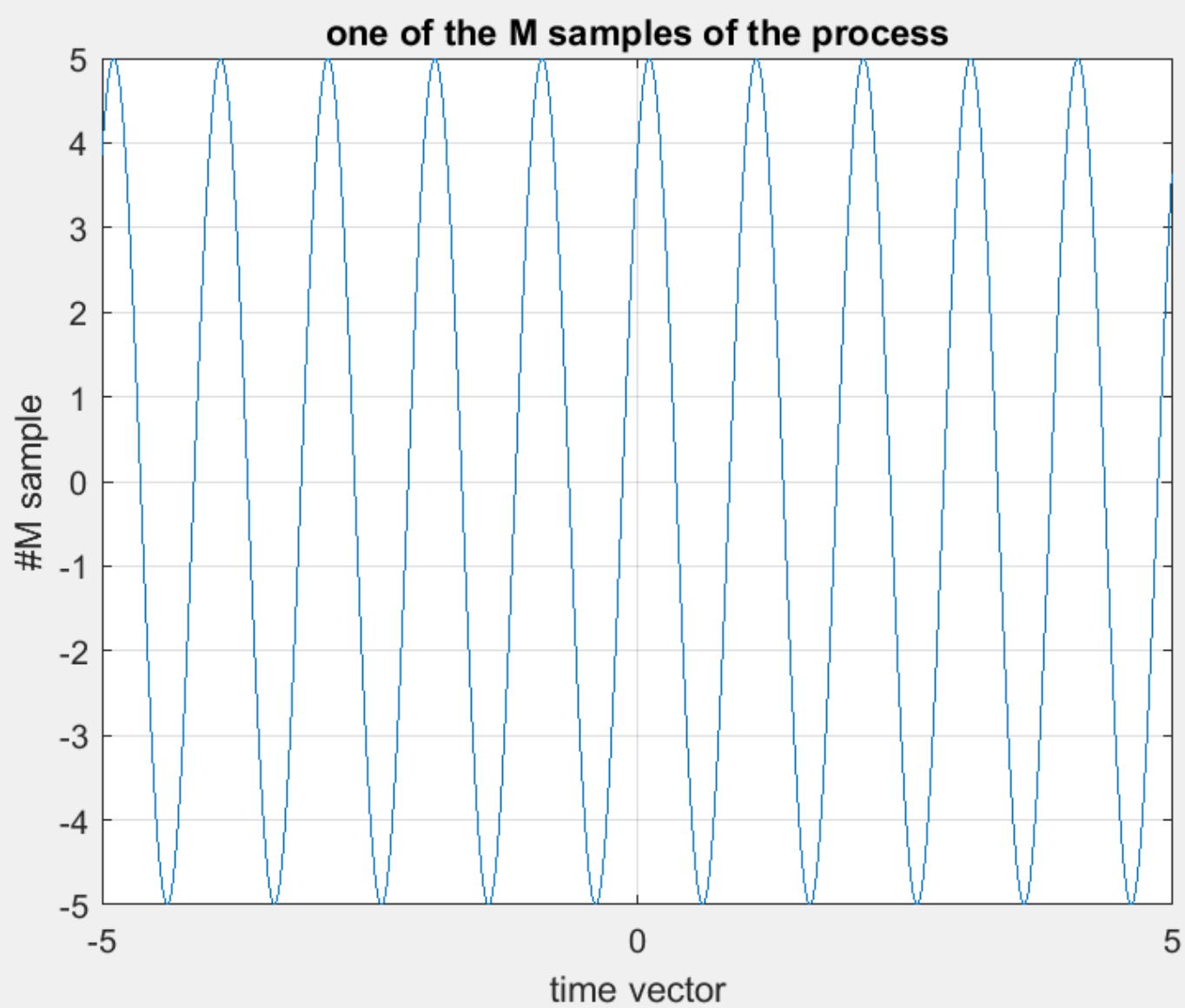


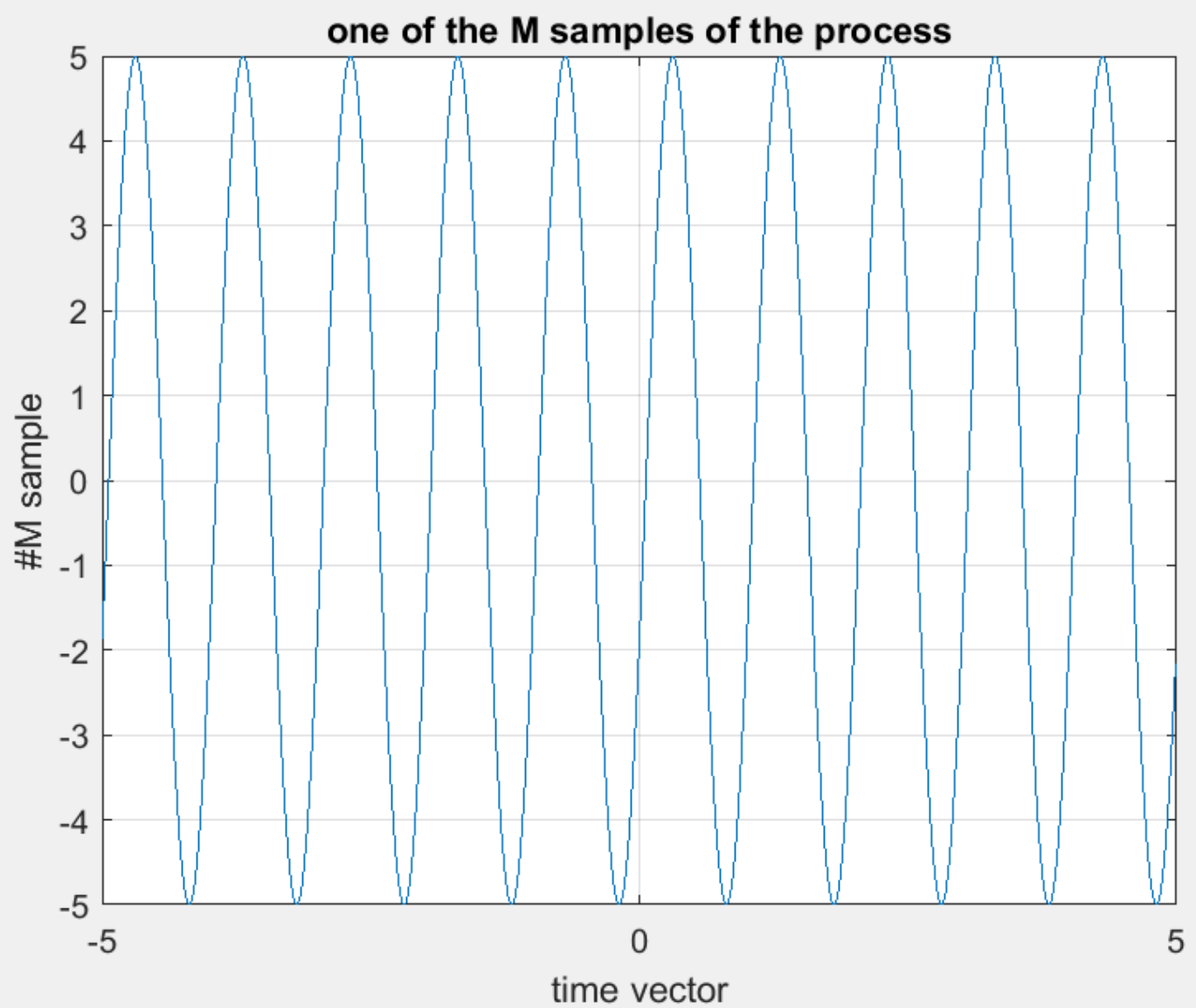
Figure 1

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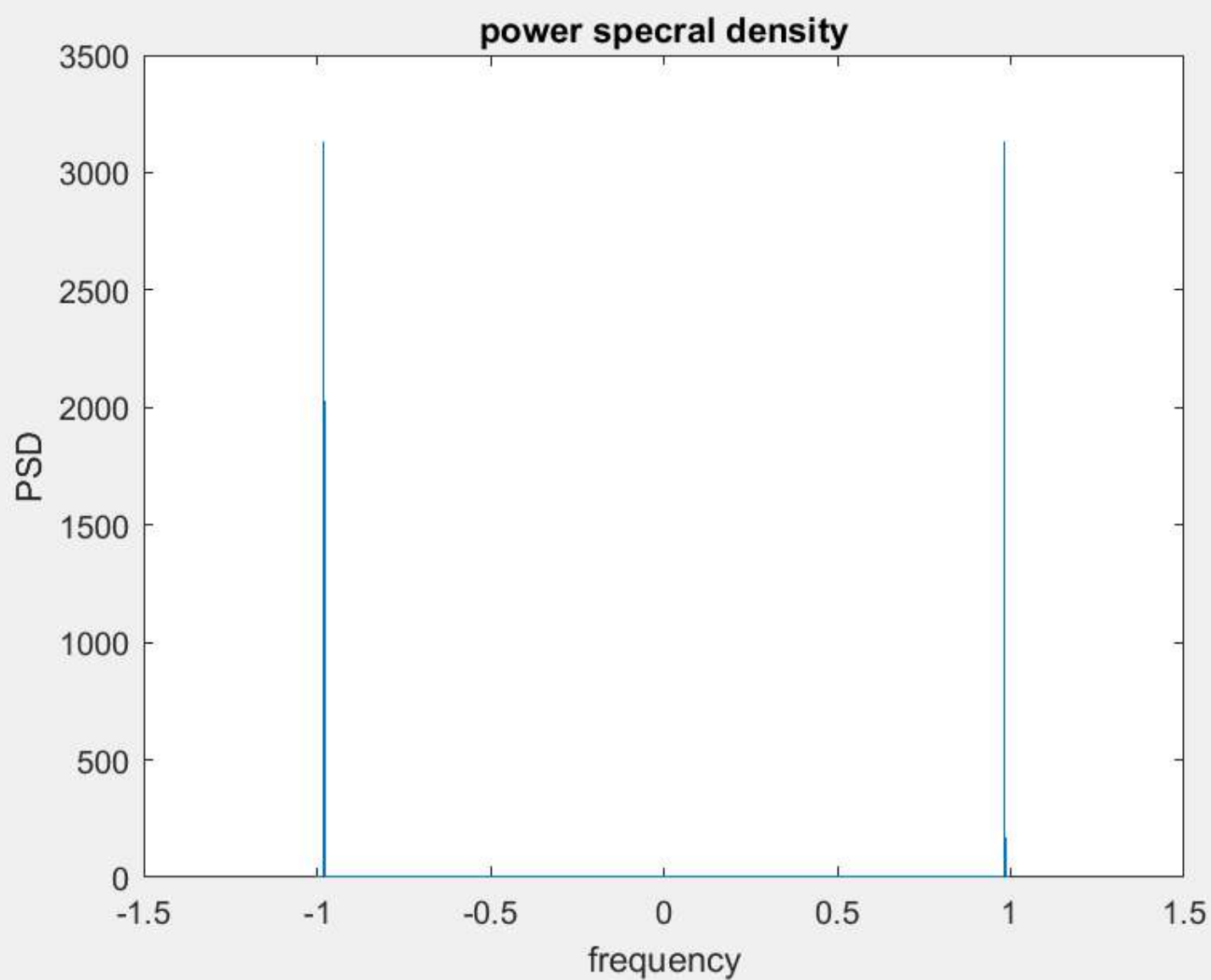


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Calc time mean of N

-8.66e-19

Calc time ACF of N

0.00625