

# Pre Report 03

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## Questions

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**What's the maximum phase shift introduced by the filter?**

The maximum phase shift is -90 degrees.

**What is the gain at the cut-off frequency?**

The gain at 100 Hz is -3.02 dB (0.706 Voltage Gain)

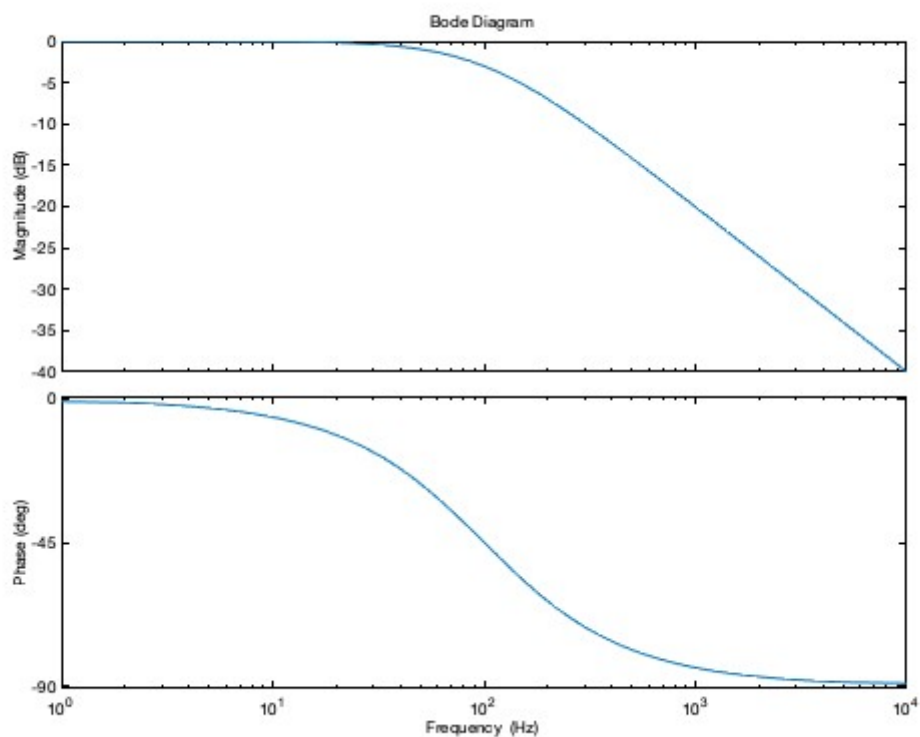
**Can the filter be used to change the input frequency of your signal? Why or why not?**

This filter can only change the amplitude and phase of the signal, not the frequency.

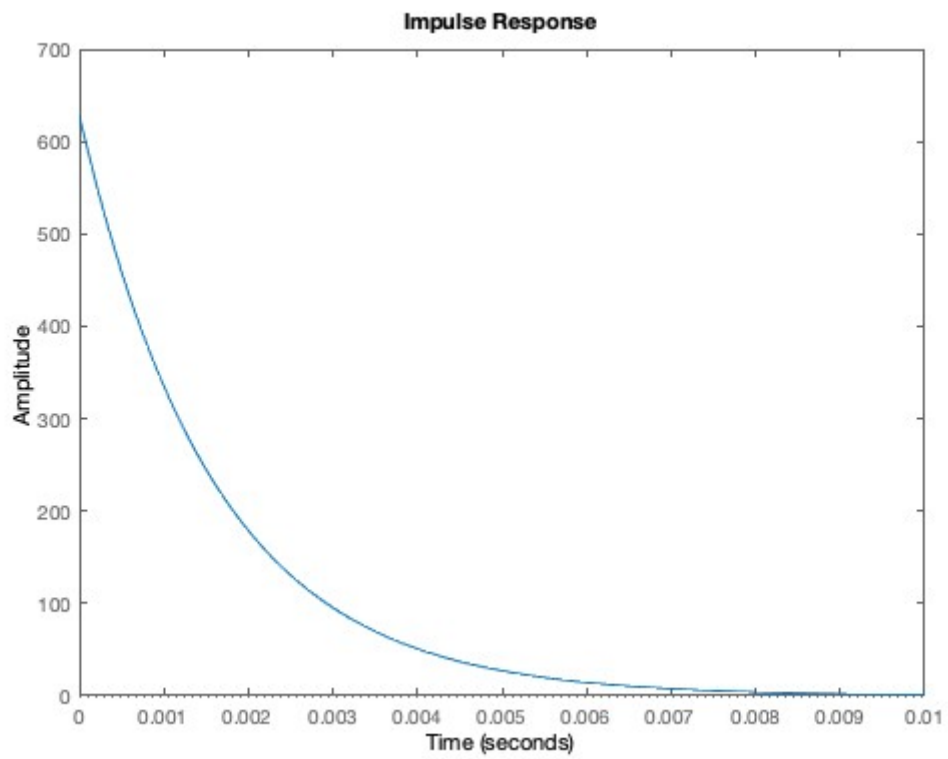
## Plots

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### Bode



### Impulse response



## Step response

