Jonathan Sumner

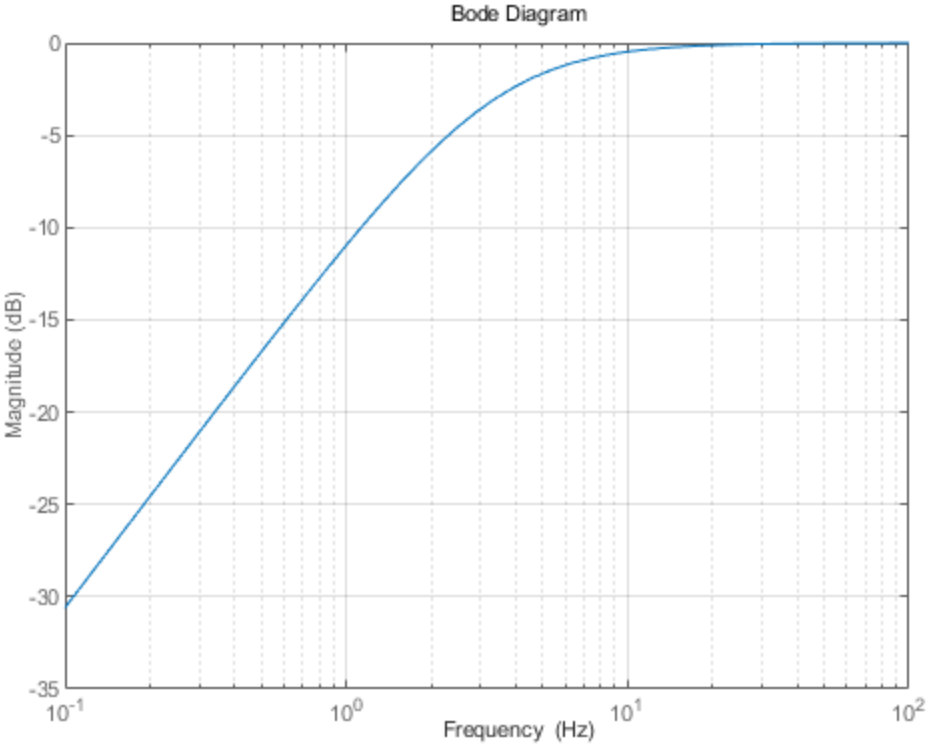
Lab 5 – Bode Plot

EEET-332.01 – Signals, Systems, and Transformers Lab

Due Date: 10/20/2024

Section 5 RC Circuit

```
syms s C R
Zc=1/(s*C);
Av5 = simplifyFraction(R/(R+Zc));
C=0.0047;R=10;
Av5=subs(Av5);
[symNum, symDen] = numden(Av5);
num = sym2poly(symNum);
den = sym2poly(symDen);
Av5TF = tf(num,den);
opts = bodeoptions;
opts.Grid = 'on';
opts.PhaseVisible = 'off';
opts.FreqUnits = 'Hz';
bode(Av5TF,opts)
```


Bode Diagram
0
-5
-10
-15
-20
-25
-30
-35
Magnitude (dB)
10^{-1}
10^{0}
10^{1}
10^{2}
Frequency (Hz)

Report:

Create your cover page.
Submit your cover page, the requested screenshots from section 5, and this sign-off sheet.

Sign-offs

Name Jonathan Sumner

Section 3: Bode plot with grid

Signature | Date 10/7/2024

Section 4: Frequency response in Hz

Signature | Date 10/7/24