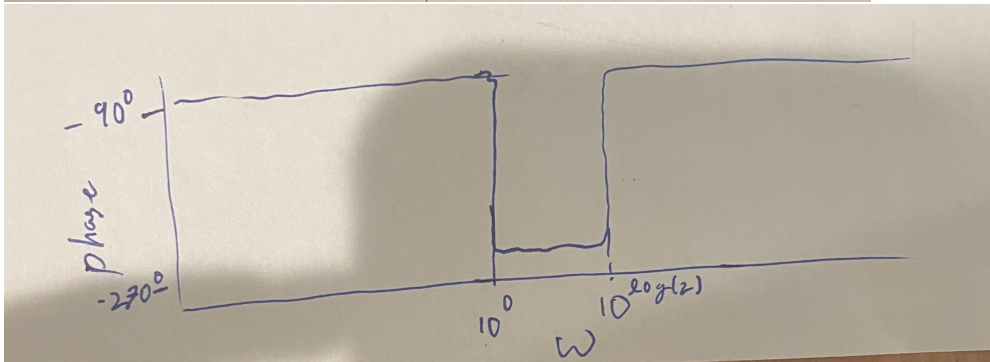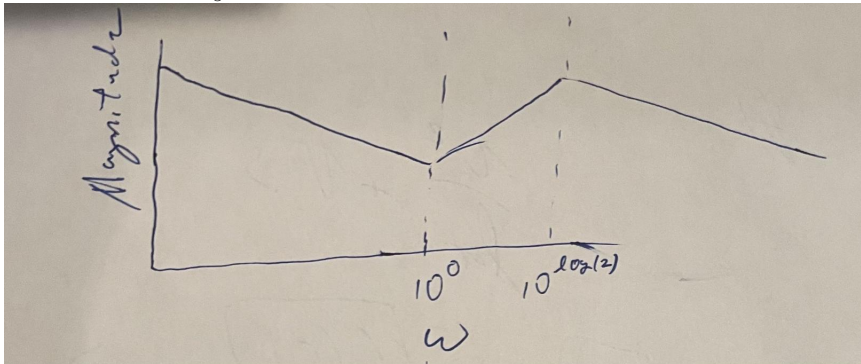# ECE 141 Homework 2

Lawrence Liu
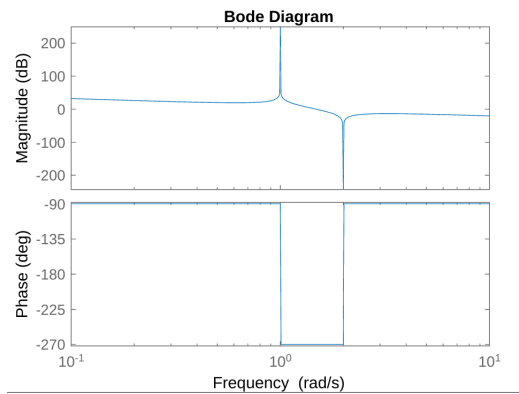
May 30, 2022

Problem 6.5

This has two break points, one at $\omega = 1$ and another at $\omega = 2$. Furthermore because of the $\frac{1}{s}$, we have that the sketch of the bode plots look like.

We can confirm this with the following matlab code

```
sys = tf([1 0 4], [1 0 1 0]);
bode(sys)
```

Which outputs the following plot

Problem 6.7