

Use of Matlab to plot a Bode plot.

Start matlab and type
help bode and help tf

to set up the transfer function

Lets say that we want to set up the transfer function $H(s) = (50+6s)/(5s^2+0.5s+100)$
The command in matlab is

```
h=tf([50 6], [5 0.5 100])
```

to plot the Bode plot:

```
bode(h, {0.001, 100})
```

This plot the Bode plot between 0.001 to 100 rad/sec