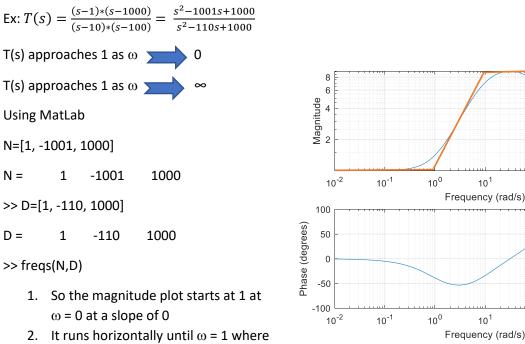
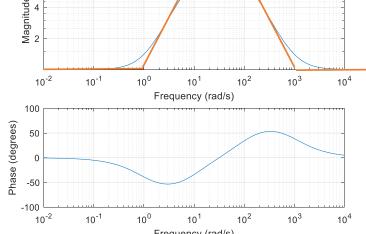
Bode Plots

Let's discuss how to do a Bode Plot





- the slope becomes +6 dB per octave (+20 dB per decade) since it passes a 0
- 3. It continues at this slope until the next break point (the pole at ω = 10) where the slope drops back to zero.
- 4. The next break point is the pole at $\omega = 100$ so the slope becomes -6 dB per octave
- 5. Then at the last break point (the zero at ω = 1000) the slope returns to zero.

This method works great as long as the magnitude is defined at either ω = 0 or $\omega = \infty$ (run the process backwards). If neither limit is well defined ($\pm \infty$),

- 1. find a spot along the plot where the slope runs constant and determine the magnitude at the center of that run.
- 2. Now work outward from that point in both directions to draw the piecewise linear approximation to the Bode magnitude plot.