Week of 10 April 2017

1. Agarwal & Lang Example 10.4
2. " " " " 10.6
3. Write an expression for the complex impedance of:

   ![Complex impedance circuit](image)

   Plot the magnitude and phase of $Z$ vs Frequency as $\log(\text{Mag})$ vs $\log(\text{Freq})$ and phase vs. $\log(\text{Freq})$

4. Ditto for:

   ![Another circuit](image)

5. Use either the convolution method or the complex frequency method to find the steady-state value of $V_{\text{out}}(t)$, i.e.,

   $V_0 \cos(\omega t)$

   $\rightarrow V_{\text{out}}(t) = ?$