Homework 9 EE 220 Circuits I Fall 2019 Monday, November 18, 2019

- 1) PP9.1 Also, express sinusoid as a phasor.
- 2) PP9.9 Also, draw phasor equivalent circuit.
- 3) PP9.12 Also, find the equivalent impedance Z_{eq} 'seen' by the source.
- 4) 9.16
- 5) 9.23
- 6) 9.34 Also, draw the phasor equivalent circuit and find the equivalent impedance Z_{eq} 'seen' by the source at frequency ω .
- 7) 9.46 Also, draw phasor equivalent circuit and use phasor analysis to find the equivalent impedance Z_{eq} 'seen' by the source.
- 8) 9.66 Also, find Y_T . Express answers for Y_T and Z_T in both rectangular and polar (angle in degrees) forms.
- Notes: For this class, always define phasors in terms of the **cos()** function.
 - Unless told otherwise, always put current & voltage <u>phasors</u> in polar form with angle in degrees (e.g., $A \angle \theta$).
 - Unless told otherwise, always put time-domain sinusoidal currents & voltages in terms of the **cos()** function.
 - Unless told otherwise, always put impedances & admittances in rectangular form (e.g., A + jB).

Due Friday, November 22, 2019.