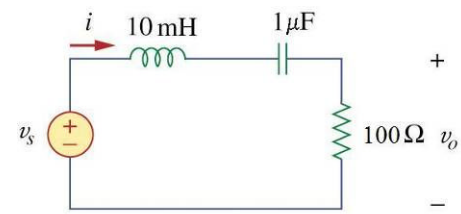
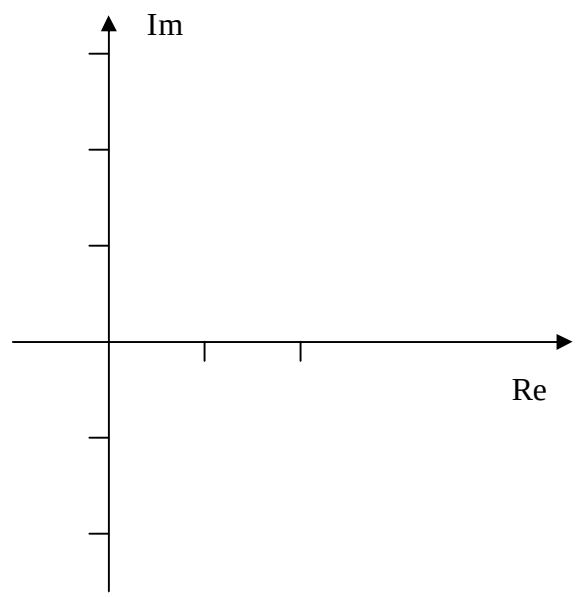
Lesson 21: AC Circuit Analysis 2

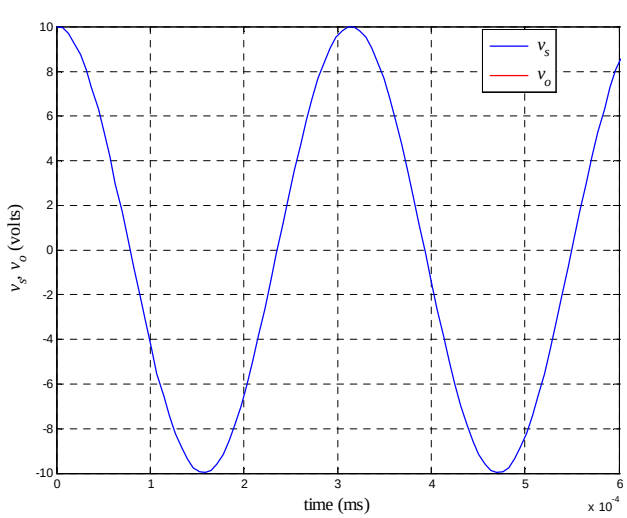
Calculate the impedance of the circuit as seen by the source for the three frequencies below. Assume $v_s = 10 \cos(\omega t)$.



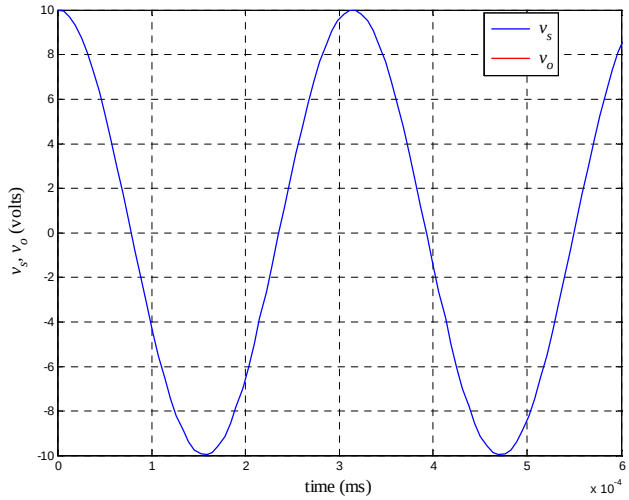
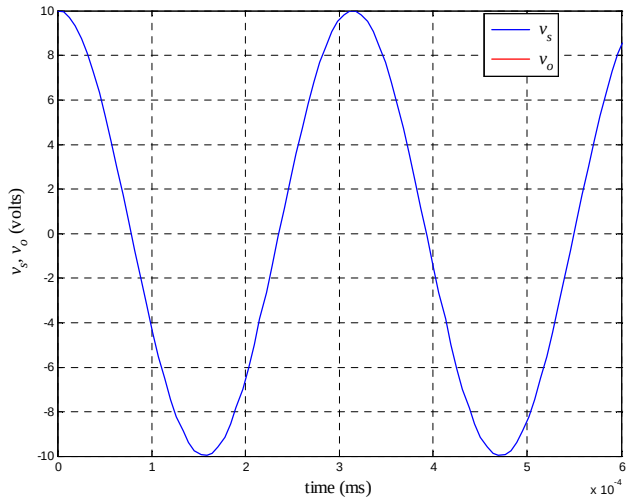
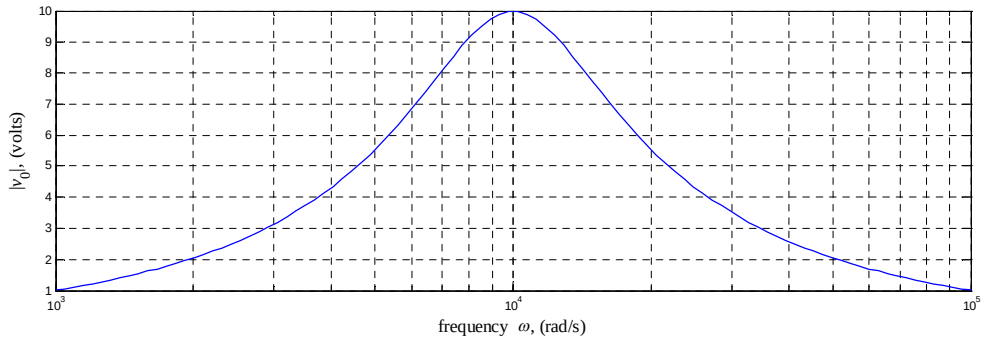
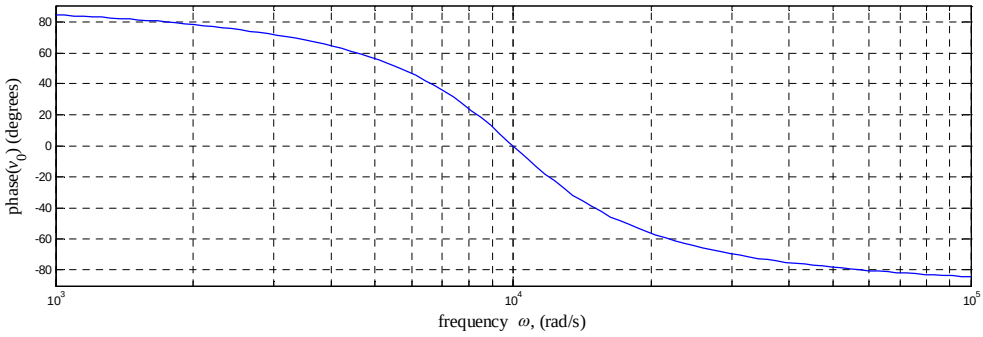
Frequency (ω)	Impedance ($\mathbf{Z}_{in}$)		$\mathbf{V}_o$
5,000			
10,000			
20,000			



ω = 5,000 rad/s



ω = 10,000 rad/s



ω = 20,000 rad/s