PLC Activity #12
First Order Phasor Circuit Applets
Due: see website for due date

How to get credit for this activity
First, sign-in at the computer and sign-out when the activity is complete. Show your work and results to a PLC tutor so they can check your work and initial the signoff sheet. Be prepared to answer questions about the activity or your results.

First Order Circuit Interactive Exercises
Go to the textbook website, http://bcs.wiley.com/he-bcs/Books?action=index&itemId=0470521570&bcsId=5283, and complete the following Interactive Exercises.

Interactive Examples 10.8-2
What is the value of the resistance R?

![Image of a circuit diagram with equations: $V_s(t) = 6.45\cos(2t + 124^\circ)$ V, $v_0(t) = 1.45\cos(2t + 201^\circ)$ V]

Interactive Examples 10.8-3
What is the amplitude A of $v_0(t)$?

![Image of a circuit diagram with equations: $V_s(t) = 5.95\cos(1t + 69^\circ)$ V, $v_0(t) = A\cos(1t + 142^\circ)$ V]
Interactive Exercise 10.8-4
What is the value of \( a = \text{Re}(Z) \)?

Interactive Exercise 10.8-3
What is the value of the inductance \( L \) (mH)?