Name:
Homework 9, due Monday 9/30/2013.

A $100 \Omega$ load is connected to a generator through a lossless coaxial cable with characteristic impedance of $50 \Omega$. The length of the coaxial cable is 1.2 m .


Calculated the following quantities:
a. Reflection coefficient
b. Propagation constant
c. The standing wave ratio in the cable
d. Input impedance at the head of the cable (location A)
e. The voltage at the head of the cable (location A)
f. The current at the head of the cable (location A)
g. The voltage at the middle of the cable (location B)
h . The current at the middle of the cable (location B)
i. The voltage at the load (location C)
j. The current at the load (location C)

Note: Your final answer to d-i must be in sine and cosine forms (not phasor form).

