Special Problem 2.6-13

In the circuit below, the load Z_L is unknown!

However, we **do** know that the voltage on the transmission line has the form:

$$V(z) = Ae^{-j\beta z} + e^{+j\beta z}$$

- 1. Determine the value of constant A.
- 2. Determine the load impedance Z_{L} in terms of β (do not attempt to determine the value of β !).

Hint:
$$V(z = 0) \neq 4.5 V$$

