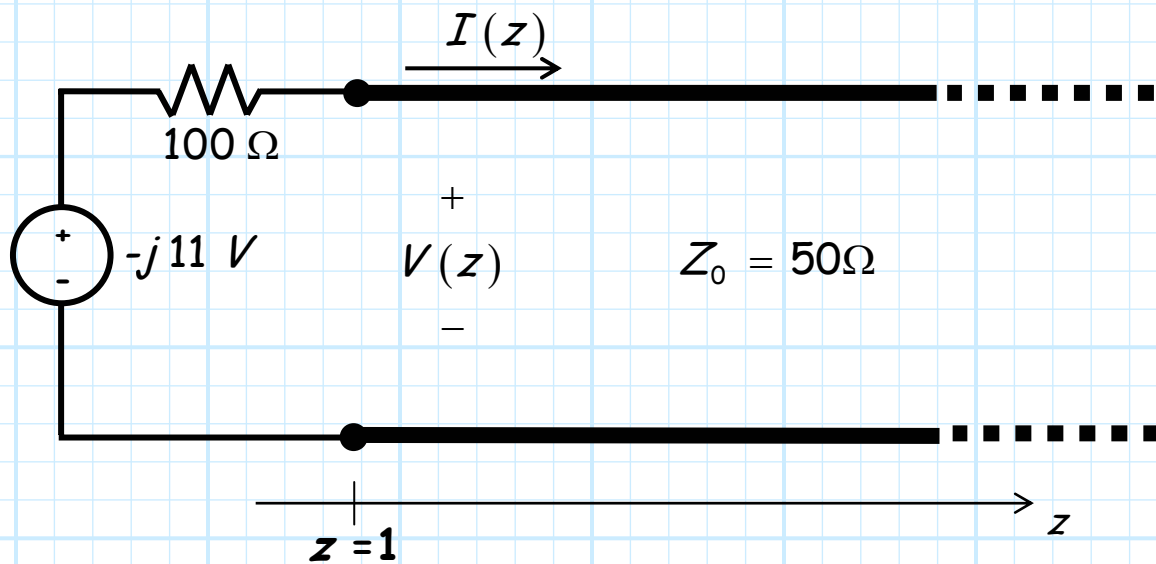**Special Problem 2.6-11**

Consider the circuit below:

It is known that the **voltage** along the transmission line is:

$$V(z) = 3e^{-j\beta z} + Be^{+j\beta z} \quad V$$

where B is some unknown complex value, and $\beta = \pi/2$.

Determine the value of B.