

Special Problem 5.5-3

In the circuit below, the voltage along the first section of transmission line (i.e., for $z < 0$) is known to be:

$$V(z) = 5.0 e^{-j\beta z} + A e^{+j\beta z} \quad (\text{for } z < 0)$$

Where A is an unknown constant.

Use the **theory of small reflections** (and you **must** use the theory of small reflections) to determine an **approximate** value of constant A .

