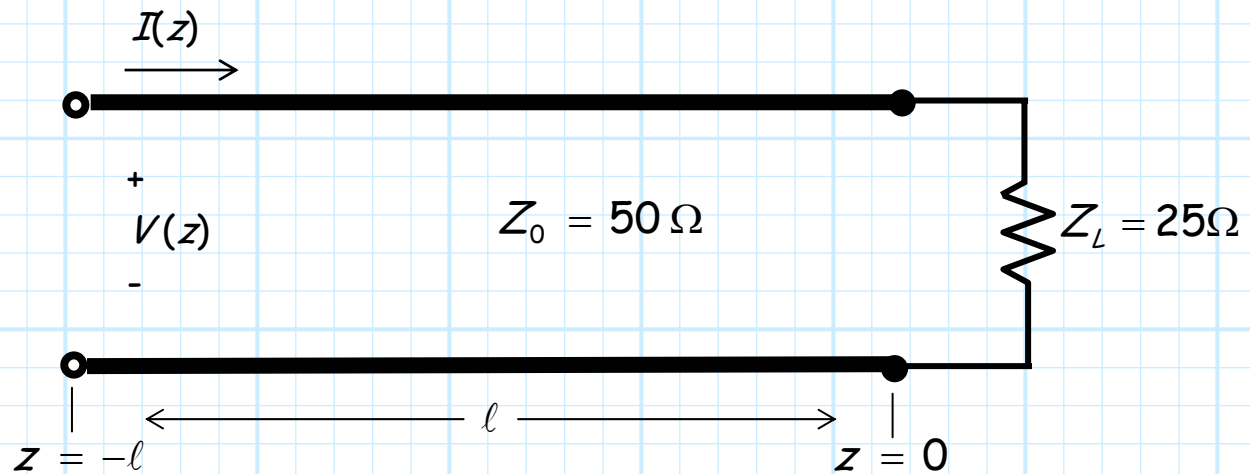


Special Problem II.A-47

Consider a terminated, lossless transmission line:



The **voltage** along the transmission line is:

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

We also know that:

$$I(z = 0) = 0.08 \text{ A}$$

Determine the **values** of X and Y .