Special Problem II.A-47

Consider a terminated, lossless transmission line:

\[ I(z) \]
\[ V(z) = X e^{-j\beta z} + Y e^{j\beta z} \]

We also know that:

\[ I(z = 0) = 0.08 \, A \]

Determine the values of \( X \) and \( Y \).