Special Problem 2.1-4

For a certain transmission line, $\beta=\pi/2$ (radians/m) and $Z_0=50~\Omega$.

We know that the total voltage at location z = -1 m on this transmission line is:

$$V(z=-1)=j6$$
 V

the reflection coefficient function at location z = 1 m is likewise:

$$\Gamma(z=1) = -0.25$$

Determine the **total current** at location z=0 (i.e., I(z=0)) on this transmission line.

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