1/1

Special Problem 2.1-3

A certain transmission line has $\beta = \pi/2$ (radians/m).

We know that the reflection coefficient function at location z = 1 is:

 $\Gamma(z=1) = -0.5$

and the line impedance at location z = 0 is:

$$Z(z=0)=120 \Omega$$

and the total voltage at location z = -1 is:

$$V(z=-1)=j4$$
 V

Determine the function I(z) that describes the current along this transmission line.