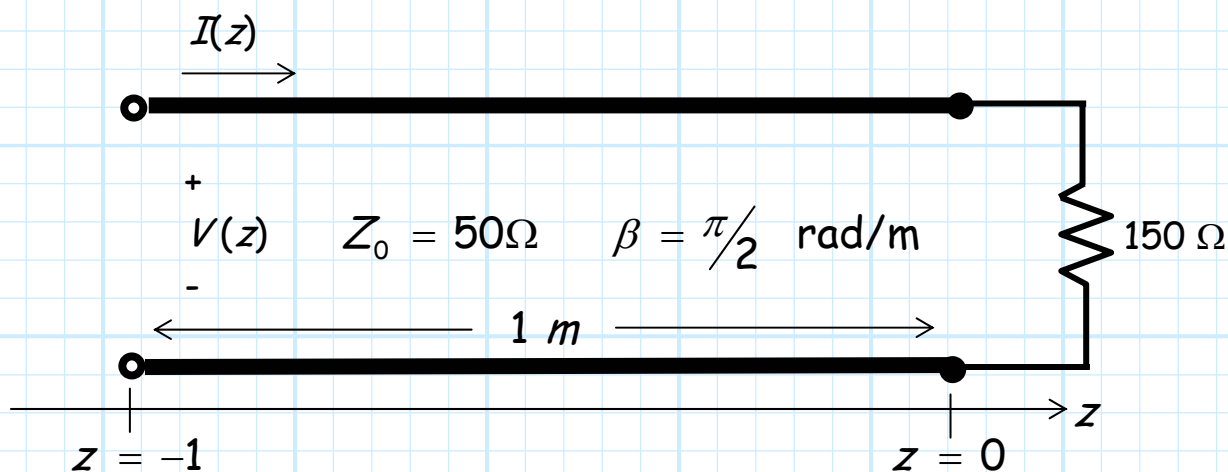


Special Problem 2.B-1

Consider this terminated, lossless, transmission line :



The voltage at $z=0$ is known to be $V(z=0) = j3.0\ \text{V}$:

Determine:

1. the complex functions $V^+(z), V^-(z), \Gamma(z)$.
2. the complex functions $V(z), I(z), Z(z)$.
3. the complex values $V^+(z=-1), V^-(z=-1), \Gamma(z=-1)$.
4. the complex values $V(z=-1), I(z=-1), Z(z=-1)$.