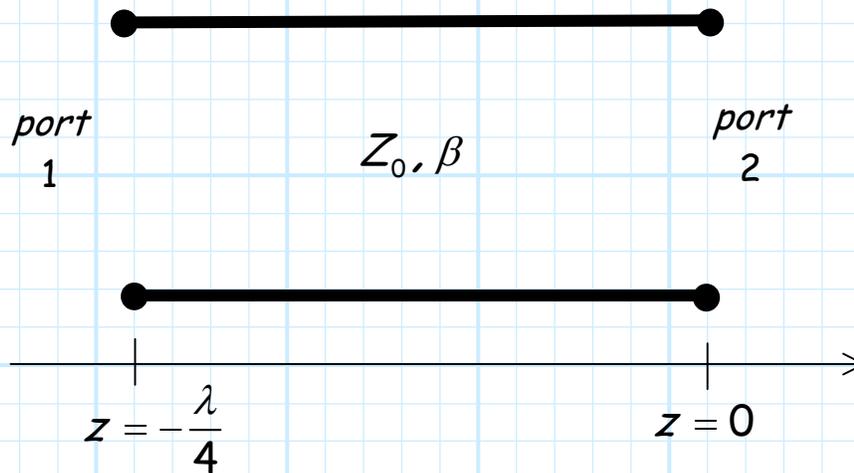


Special Problem 4.2-5

The voltage along the transmission line below is described as:

$$V(z) = V_0^+ e^{-j\beta z} + V_0^- e^{+j\beta z}$$



Using the **definition** of admittance parameters, evaluate this 2-port device and find explicitly the values Y_{11} and Y_{21} .

Hint: Use your **transmission line** knowledge to determine the required voltages and currents at each port.