1. For a lossy transmission line, is propagation constant β a linear function of ω?
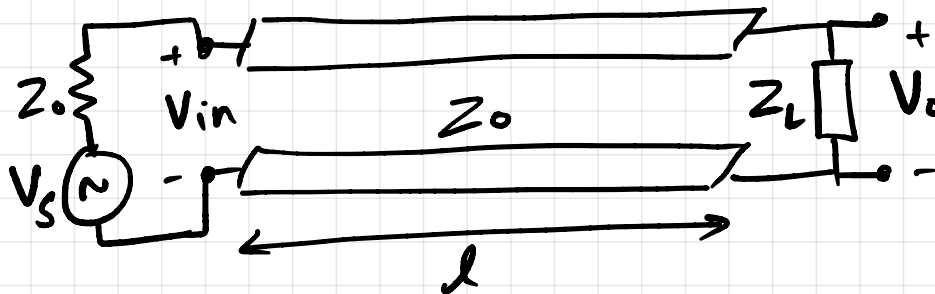
   What can you say when, $\dfrac{L}{R} = \dfrac{C}{G}$.

2.
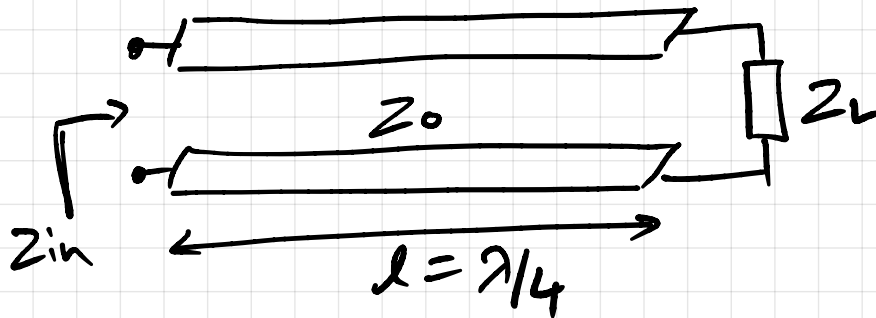
   Find Zin for the above lossless transmission line terminated with load Z_L.

3.

   Find Z_L to maximise Vo. Find Vin for that case.