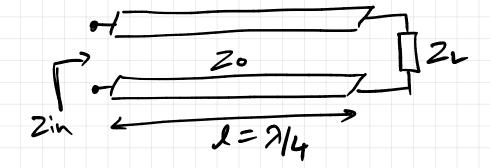
## Assignment3 EE5192 2022 akumar@ee.iith.ac.in

1. For a lossy transmission line, is propagation constant  $oldsymbol{\beta}$  a linear function of  $\omega$ ?

What can you say when,  $\frac{L}{R} = \frac{C}{G}$ .

2.



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

3. 2. Vin Z. Z. Vin Z. Vin Z. Z. Vin Z. Z. Vin Z. V

Find **Z**<sub>L</sub> to maximise Vo. Find Vin for that case.