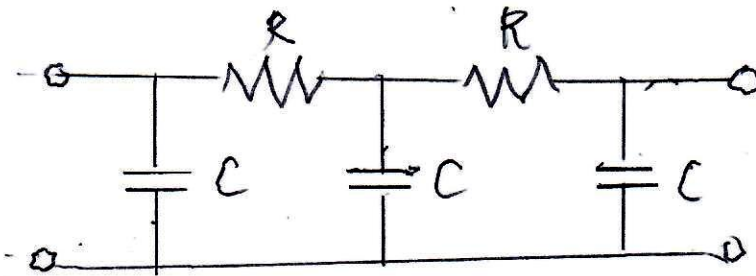


## HOMEWORK 1

ECE 580

Due October 14, 2024

1. In the circuit shown,  $R = 1 \text{ k}\Omega$ ,  $C = 2 \text{ pF}$  and the frequency is  $10 \text{ MHz}$ . Find the short-circuit admittances.



2. Write the MNA equations in the Laplace domain for the circuit shown.

