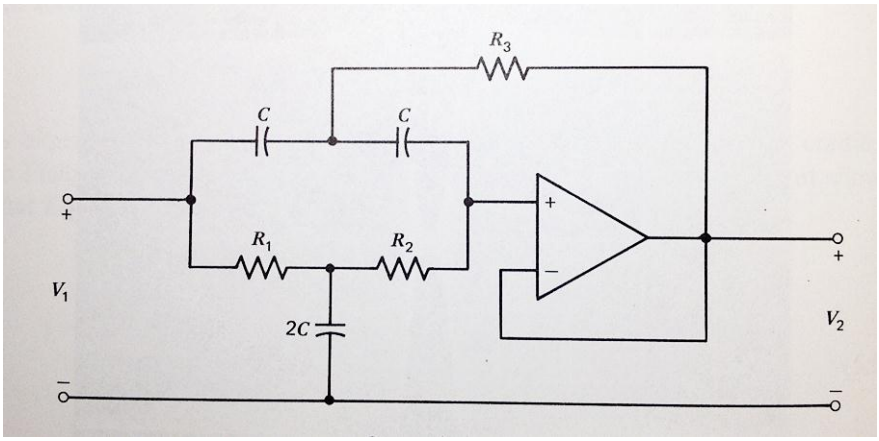
Assignment - 2



$R_{1,2,3}$= ……..Ω C= ……..μF

1 - Given the circuit, find its transfer function H(s) in s-domain or jω-domain in a symbolic expression.

2 – What is the order and DC gain of this filter circuit?

3 – Find the symbolic expression of the input impedance Z_{in} in s-domain.

4 – Verify your H(s) and $Z_{in}(s)$ expression by doing a proper simulation of the circuit in LT-Spice with the given values. Investigate the influence of the value of C referring to H(s).

- Deliver all results personally before end of the second examination week at the course responsible person.
- Only original work will be accepted.
- If there are questions about this assignment feel free to ask but do prepare good questions.
- More investigations in your circuit research will improve the chance for higher final marks.