

BIRZEIT UNIVERSITY

Faculty of Engineering Electrical Engineering Department NetworkAnalysis II - ENEE335

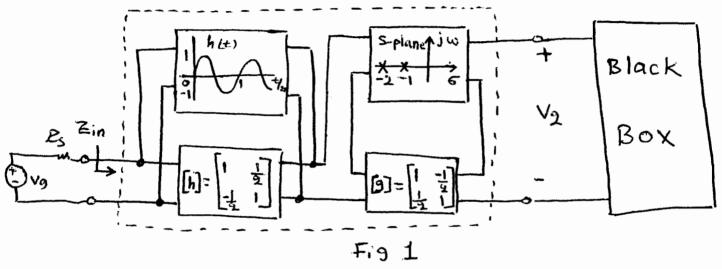
First Exam

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Problem:

For the following circuit diagram shown in figure 1



- a. Design the circuits for all networks
- b. If the black box has the following transfer function

$$T_{v}(s) = \frac{3 s}{s^3 + 5 s^2 + 6 s}$$

- 1. Design the circuit, using R, C, and inverting amplifier
- 2. Design passive network which is equivalent to active network which is obtained in part b.1
- c. Find Z_{in} , and V_2