

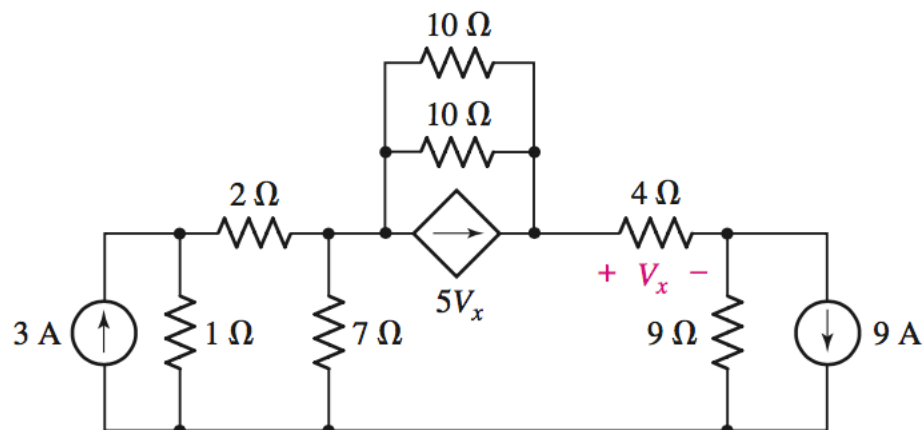
ELECTRICAL CIRCUITS

2020-2021 FALL SEMESTER

HOMEWORK #4

DUE TO: 19.01.2021 9:00 A.M.

1. Make use of source transformations to first convert all three sources in the following circuit to voltage sources, then simplify the circuit as much as possible and calculate the voltage V_x which appears across the $4\ \Omega$ resistor. Be sure to draw and label your simplified circuit.



2. With regard to the circuit represented in the following circuit, first transform both voltage sources to current sources, reduce the number of elements as much as possible, and determine the voltage v_3 .

