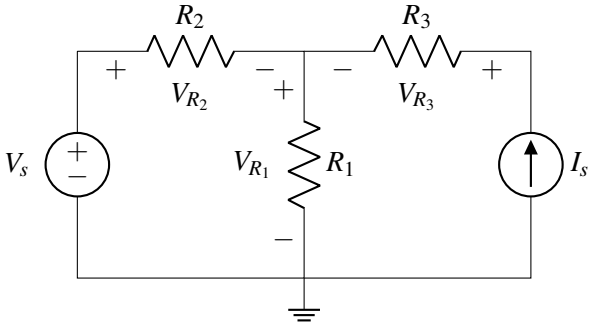
EECS 16A Designing Information Devices and Systems I
Spring 2023 Discussion 8A

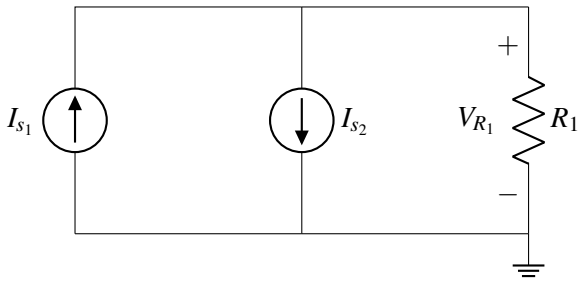
1. Superposition

For the following circuits, use the superposition theorem to solve for the voltages across the resistor(s).

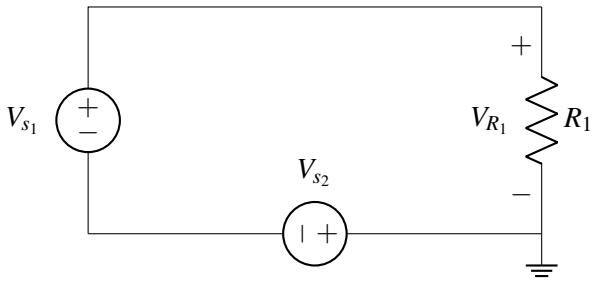
(a)



(b)

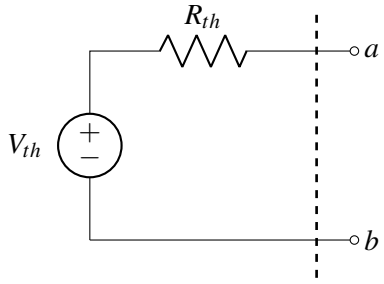


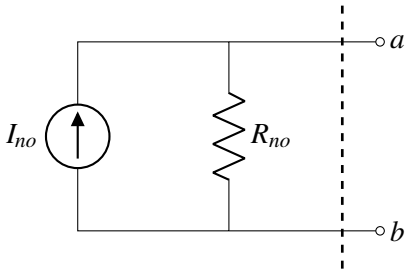
(c) (**PRACTICE**)



2. Thévenin and Norton Equivalence

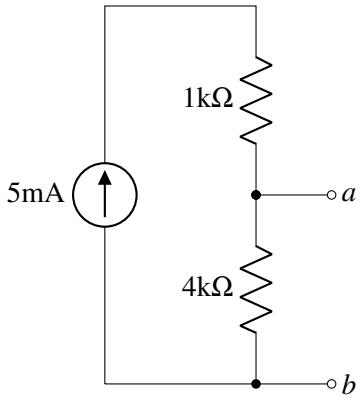
The general Thévenin and Norton equivalent circuits are shown below. Any circuit of any complexity can be represented as an equivalent circuit with either of these simplified forms, from the perspective of a single pair of nodes a and b.





Find the Thévenin and Norton equivalents across terminals a and b for the circuits given below.

(a)



(b)