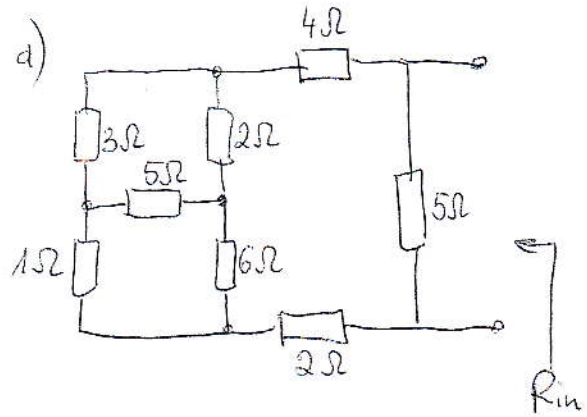
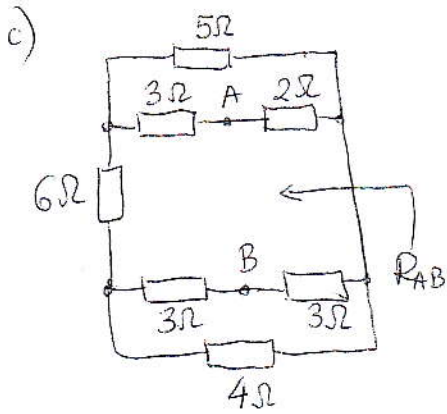
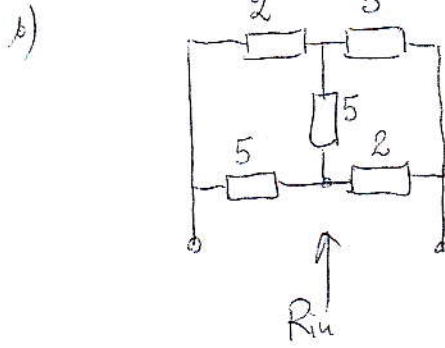
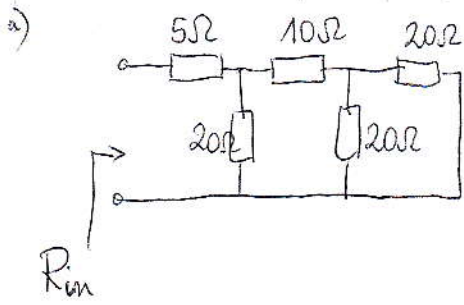
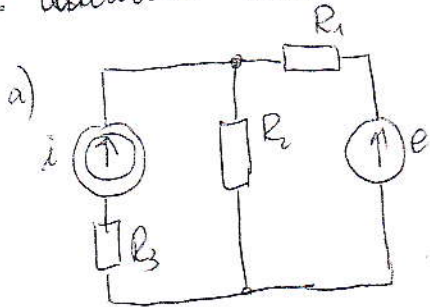


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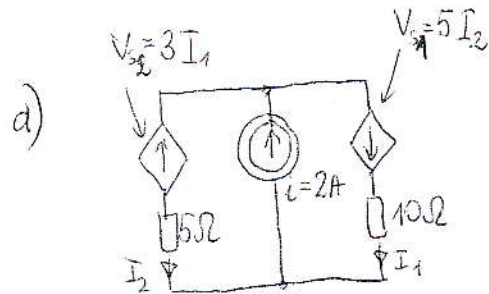
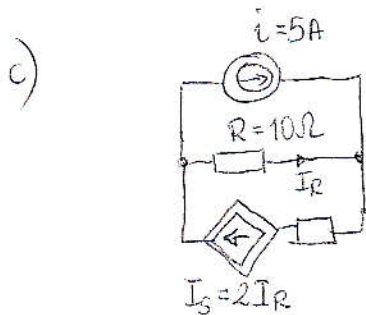
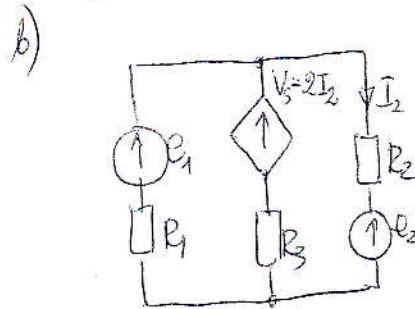
1. Calculate input impedance (resistance) of the circuits



2. Calculate currents in the circuit using Kirchhoff's laws



$i(t) = 2A$ ,  $e(t) = 10V$   
 $R_1 = 6\Omega$ ,  $R_2 = 4\Omega$ ,  $R_3 = 10\Omega$



3. Describe the circuit by set of differential equations using Kirchhoff's laws

