Háskóli Íslands
Verkfræðideild
Rafmagns- og tölvuverkfræðiskor

Vor 2005

08.31.01 Greining Rása

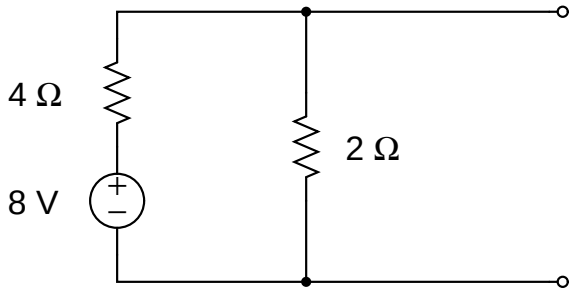
Miðsvetrarpróf I

18. febrúar 2005 kl. 8:15 árdegis

1. (10)

   Finnið Norton jafngildisrásina.

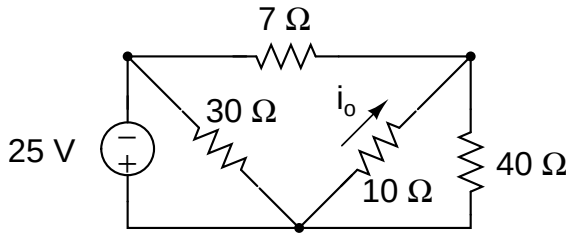
   Find the Norton equivalent circuit.



2. (20)

Finna skal strauminn i_o og aflið sem eyðist í 40 Ω viðnáminu.

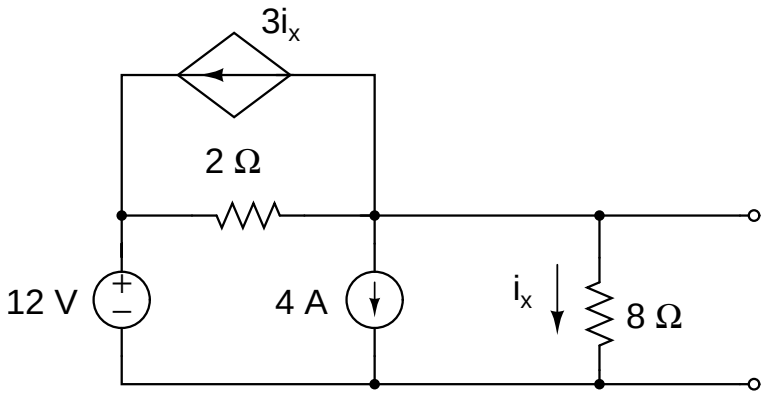
Calculate the current i_o and the power dissipated in the 40 Ω resistor.



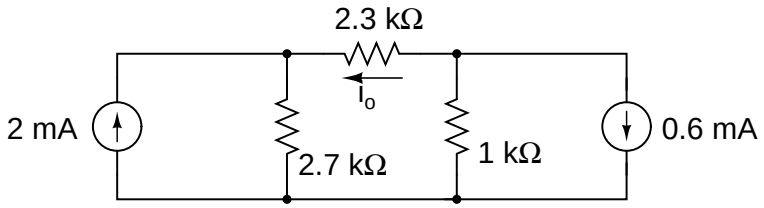
3. (40)

Finna skal Thévenin jafngildisrásina með tilliti til pólanna a og b fyrir rásina hér að neðan.

Find the Thévenin equivalent circuit with respect to the terminals a and b for the circuit below.



4. (30)

Nota skal umbreytingu linda til að finna strauminn i_o í rásinni hér að neðan.

Use a series of source transformations to find the current i_o in the circuit below.