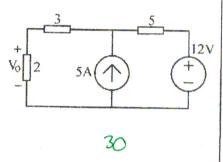
Mühendislik Fakültesi Bilgisayar Mühendisliği Bölümü

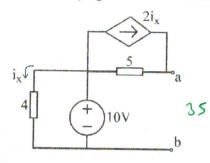
20.12.2018 11:00

Devre Teorileri Dersi Final Soruları (Sınav Süresi 65 dk)

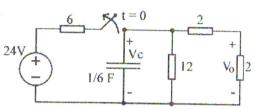
1) Vo gerilimini süperpozisyon teoremini kullanarak bulunuz.



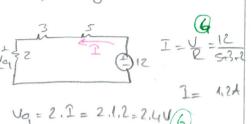
2) ab noktasından bakıldığında görünen Thevenin eşdeğer devresini bulunuz.

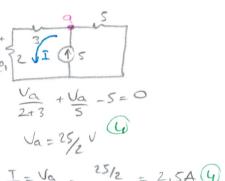


- 3) t=0 anında uzun süredir kapalı olan anahtar açılmaktadır.
- 35 a) Vc(t) gerilimini t≥0 için bulunuz.
- b) Vo(t) gerilimini t≥0 için bulunuz.

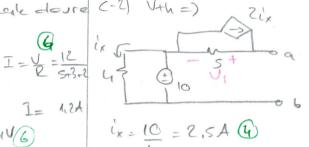


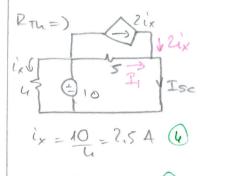
1) 1. Kayrah ack doure (-2) Vth =)



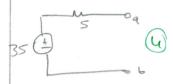


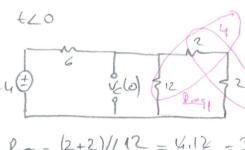
$$\frac{I - V_{\alpha}}{2+3} = \frac{25/2}{5} = 2.5A(4)$$





$$I_1 = \frac{10}{5} = 2A$$
 (4)
 $I_{5c} = I_1 + 2i_x = 2 + 5 = 7A$





C-3)

$$V_0(t) = V_0(t)$$
, $2 = \frac{8}{2}e^{-2t}$
 $(2+2)$

$$= 4e^{-2t}V$$