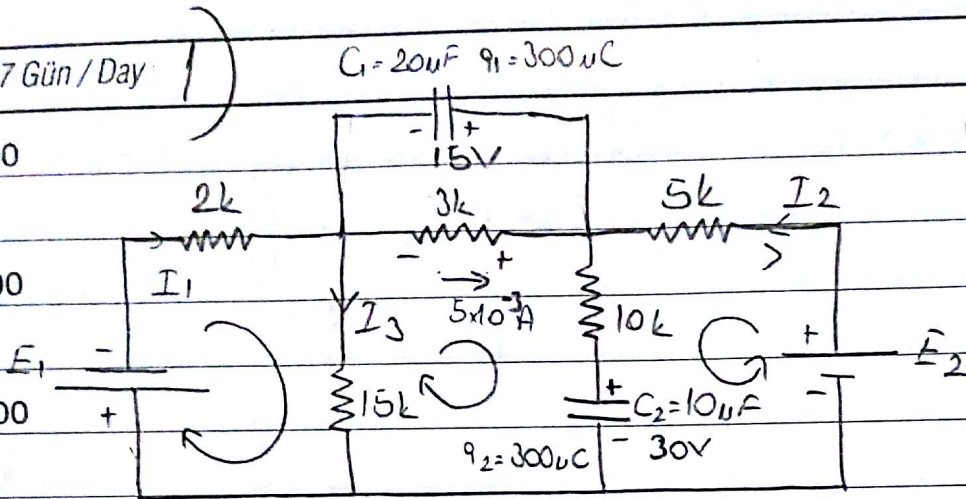


08:00

$$C = \frac{Q}{V} \quad V = \frac{Q}{C}$$

09:00

10:00



11:00

$$3000 \cdot 5 \times 10^{-3} + 30 - 15000 I_3 = 0 \quad 45 = 15000 I_3$$

12:00

$$I_3 = 3 \times 10^{-3} A$$

$$I_2 = -5 \times 10^{-3} A$$

$$13:00 \quad I_1 = I_3 + 5 \times 10^{-3} = 8 \times 10^{-3} A$$

$$14:00 \quad 2000 I_1 + 15000 I_3 = -E_1$$

$$16 + 45 = -E_1 \quad \underline{E_1 = -61 V}$$

15:00

$$5000 I_2 + 30 - E_2 = 0$$

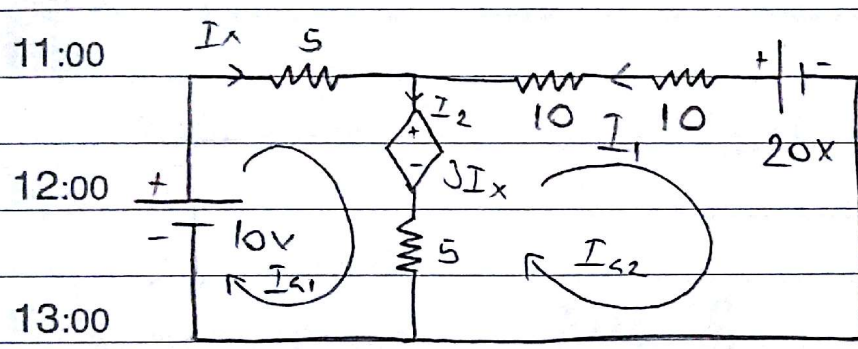
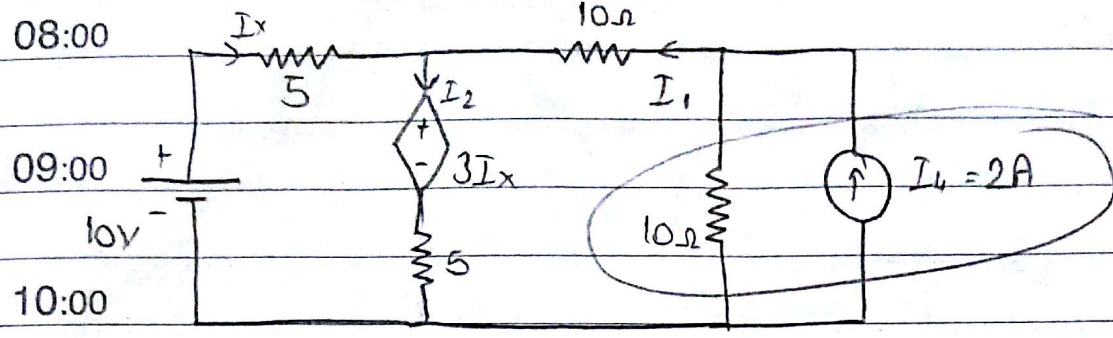
$$16:00 \quad -25 + 30 = E_2 \quad \underline{E_2 = 5 V}$$

17:00

2)

261 - 104 Gün / Day

38. Hafta / Week 2006



$$\begin{aligned} \hat{I}_x &= \hat{I}_{c1} \\ \hat{I}_2 &= \hat{I}_{c1} - \hat{I}_{c2} \\ \hat{I}_1 &= -\hat{I}_{c2} \end{aligned}$$

14:00 $5I_x + 3I_x + 5I_2 = 10 \quad 8I_x + 5I_2 = 10$

15:00 $-20I_1 + 20 - 5I_2 - 3I_x = 0 \quad 20 = 20I_1 + 5I_2 + 3I_x$

16:00 $8I_{c1} + 5I_{c1} - 5I_{c2} = 10 \quad -5/13I_{c1} - 5I_{c2} = 10$
 $-20I_{c2} + 5I_{c1} - 5I_{c2} + 3I_{c1} = 20 \quad -25I_{c2} + 8I_{c1} = 20$

17:00 $-65I_{c1} + 25I_{c2} = -50$

18:00 $-25I_{c2} + 8I_{c1} = 20$

19:00 $-57I_{c1} = -30 \quad I_{c1} = 0,526A = I_x$

$I_{c2} = -0,632A = I_1 = 0,632A$

$I_2 = -0,106A$