## Subjectul C. PRODUCEREA ŞI UTILIZAREA CURENTULUI CONTINUU

	DOGENEA GI OTILIZANEA GONENTOZOT GONTINGO
III.a.	
	$I = \frac{(E_1/r_1) + (E_2/r_2)}{1 + R_{ext} \cdot [(1/r_1) + (1/r_2)]}$
	$I - \frac{1}{1 + R_{\text{ext}} \cdot [(1/r_1) + (1/r_2)]}$
	$R_{ext} = R + R_A + R_{12}$
	$R_{12} = R_1 \cdot R_2 / (R_1 + R_2)$
	Rezultat final: $I = 0.5$ A
b.	
	$W = R \cdot I^2 \cdot t$
	Rezultat final: $W = 1320 \mathrm{J}$
C.	
	$P_A = R_A \cdot I^2$
	$\frac{P_A}{P_{\text{ext}}} = \frac{R_A \cdot I^2}{R_e \cdot I^2}$
	Rezultat final: $\frac{P_A}{P_{ext}}$ = 15,15%
	P <sub>ext</sub>
d.	<u> </u>
	$I' = \frac{E}{R_e + r_1}$ $P'_{12} = R_{12} \cdot I'^2$
	$P_{12}^{'} = R_{12} \cdot I^{'2}$
	Rezultat final: $P_{12}$ =0,37 W