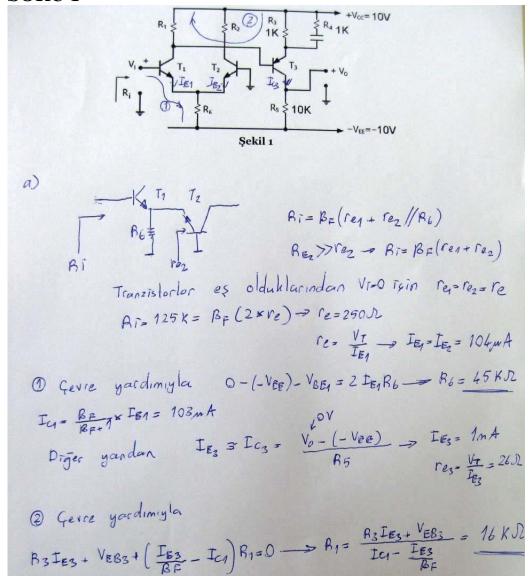
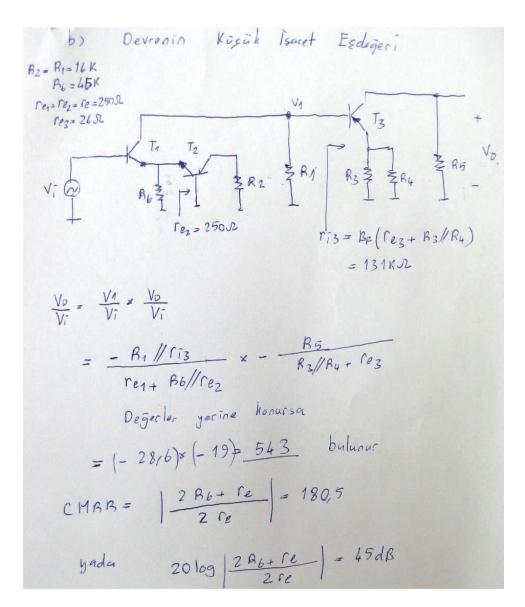
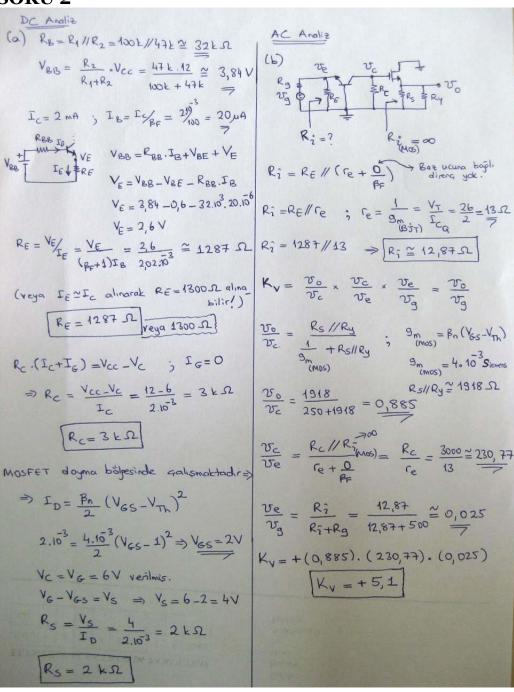
## SORU 1





## SORU<sub>2</sub>



**SORU 4** 

SORU<sub>3</sub>

a) 
$$\frac{V_{I1}-V_{N}}{R_{I}} = \frac{V_{N}-V_{O}}{R_{F}}$$
 ... (\*)
$$V_{N} = V_{P} = V_{I2} - 1DR_{2} - (**)$$
(\*) we (\*\*) yardımıyla,
$$V_{O} = -\frac{R_{F}}{R_{I}}V_{I1} + (1+\frac{R_{F}}{R_{I}})(V_{I2} - I_{D}R_{2})$$
Alternab'i çözüm (süperpszisyon)

Alternatif cázim (sűperpozisyon)

1°) 
$$v_{\bar{1}1}=0$$
,  $v_{\bar{1}2}\neq 0$ ,  $i_D \neq 0$ 
 $v_{\bar{1}2}=0$ ,  $v_{\bar{1}2}\neq 0$ ,  $i_D \neq 0$ 
 $v_{\bar{1}2}=0$ ,  $v_{\bar{1}2}=0$ ,  $v_{\bar{1}2}=0$ ,  $v_{\bar{1}2}=0$ 
 $v_{\bar{1}1}\neq 0$ ,  $v_{\bar{1}2}\neq 0$ ,

