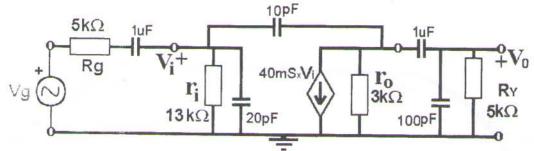
Anlg Elektronik DevrGuz13-YI1 Adi:	Soyadı:	No:	
Dikkat: Cevapiarınızı sadece soru altlarındaki bo	şluklara yapacaksınız.	İmza:	



S1b- Devrenin frekans cevabının alt frekans bölgesinin kutup değerlerini bulunuz.(15P)

S1c- Devrenin frekans cevabının üst frekans bölgesinin kutup değerlerini bulunuz.(15P)

Miller ethis

134 = 100 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000

S1d- Devrenin kazancının modülünün ve fazının frekans ile değişimlerini çiziniz. Alt kesim frekansı ve üst kesim frekansı değerlerini belirtiniz.(20P)

FAI = 9H2 FAI=20H2 FUL=57h FUZ=770h ~FA=25H2 |K= |-54| = 35dB FU=574 (Doslyn ice when silver) (boshin) MIKI 2020/Jeh LOJB / Jal 1399. -1120 Stoh 740h 574 9H 20172H 992Hz (10%) 2609 43 2503 250 1800 1250 2 SH2

Anlg. Elektrnk. Devreleri-Guz13-YI-1 Adı:	Soyadı:	lmza:
S2 Şekildeki devrede kullanılan tranzistorlar için β _F =100, V _{BE} =0.7V değerleri verilmektedir. DC durumda V _{C2} =0V'tu	r.	20MA 1 +5V
S2a- Devrenin V_L/V_s ac kazancını bulunuz.(20)		$\begin{array}{c} \begin{array}{c} \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array}$
Giris alum - Gilus Gerill	Ч	Rs FIGHT T2
DC onalla. Vcz=0-) Vac=511-		$\begin{array}{c c} 1k\Omega & 70K \\ + & 10uF \\ V_S & C_I \end{array}$
IRF = VC2 - (-VDE1) = 0,7V 70h	-= IOMA	50uA -5V
Icz = In+ Inf= IMA -		HAE JEL/AFZ)
Ic1 = 40MA = IL+ ID2 =	= 40MA	
3m1= 40MA = 1,6m1 3m2	= IMA =	40mJ
E Youlene ethili dorm		7
1 VOCIFMLOVS ->	47,	I to
THE STATE STATE TO	1 3/4 DL	AT TRL
ai duram	160	26- (-1) 2 10-11
my 24 -Vt	= = =	1 -625
15 37 du & Ton 12 2	de Zon	151= 1=625
14] tale of 162= 162 = 2,5h	A=Va	V= 12×600 = 600× (-752) =45
1/6ms. 2, Sh x (-40m × 47h)	An A	-450h ==-61k
2h) Downing dies = 752/	1-1-1	A = 1-14504 =-61k
2b) Devrenin giriş direncini (Rs direncinin sağından görül	nen direnci) bulur	nuz.(10)
1 = NF 11 61 = 6000 AF	= 30 = -	746 = -61 k
F= T-DA = SLA	× 704=-9104	Vo = 61h 2-7
11. 9/1	oh	I THE N
2b) Devrenin çıkış direncini bulunuz.(10) $G_F = \frac{7}{1 - PA! A!}$	1 x (-616ab)_	The Vo = Aut Vi
1-12A1.74C	10 1 Qu	L+ 600

13=