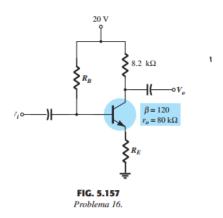
Tarea 5

## Angie Marchena Mondell

16.



AV = BRC = -BRC = -BC = -10	
Zb BRE RE	/ Ib= IF
=> Re = Rc = 8.2Kn = 10,82Kn	(BH)
10 10	= 6.892mA = 56,554A
IF = 26mV = 26mV Ve 3,82	121
Ve 3,82	/ VRB = VCC - VB
1 ⇒ 6,842mA	IB IB
	= 20v-6,3v = 242,09 Kg
VF= TFRE	1 56.5SuA
(6,842mA · 0,82Kn)	
1= 5,61V	
	\
IB = VELVBE	
5-61v+0,7=6,31v	

17.

```
17 # 17
a) x_{c} = S_{s} \# A_{s} (\# 15)
b) z = R_{0} | I Z_{b}

z_{1} : R_{b} | I B_{b} C

= 390 \text{ Ko.} / (140 \cdot S_{1} 3 \cdot 4 \cdot A_{b})

f = 7 \text{ M}_{G_{1}} \# A_{b}

2 \circ = R_{c} = 22 \text{ Kr.}

(c) Av = -R_{c} = -2, 2 \text{ Kr.}

Av = -411, 99
d) z_{1} = 744, 17
z_{0} = R_{c} / I r_{0}

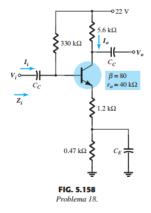
= 2, 2 \text{ K} = 20 \text{ K} = 1, 98 \text{ Kr.}

Av = R_{c} / I r_{0}

R_{c} = 1, 48 \text{ Kr.} = [-370, 74]
S_{1} \times 4 \text{ Kr.}

= 1, 48 \text{ Kr.} = [-370, 74]
```

18.



#18	
a) TB = VCC - VBE	
RB + (B+1)Re	
= 22v - 0,7	
330Kn + 191) (1,2Kn +0,47Kn)	
[= 45,78 yA]	
	1 day to year the second
b ro LIO(RC+RE)	ACCOMPANY
Zb = Br + (B+1)+Rc/ro RE	
LI+ (RC+RE)/O	
= (80.70)+ (81+5,6K/40K)	1,2KN
1+(6,8K)/40KA	
= 5600 + [81+0,14] 1,2KN	
L1+0,17	

=> -80.5,640 1 1+70 25,640 	= (87,70Kn)	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Zi= RB //7b	
$AV = -\beta R \cdot (1 + rc) + Rc$ $ZD                                    $	= 330K.83,78K	
$AV = -\beta R_{c} \cdot \frac{1 + r_{c}}{r_{0}} + R_{c}$ $ZD                                    $	330K183,78K	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	[=66,82K]	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
$\begin{array}{c} 1 + RC \\ Y_0 \\ \Rightarrow -80.5_{16} M_{10} & (1+7_{10})_{1} \leq 5_{16} M_{10} \\ & \otimes 3_{1}78 K_{10} & (40K_{10})_{1} + 5_{16} K_{10} / 40K_{10} \\ & + 5_{16} K_{10} / 40K_{10} \\ & + (5_{13}5) + 0_{1}14 \\ & + (1+0_{1}14)_{1} \end{array}$		
$\Rightarrow -80.516 \text{ M/N} \qquad 1 + 70.516 \text{ M/N}$ $\Rightarrow 3,78 \text{ M/N} \qquad 40 \text{ M/N}$ $+5.6 \text{ M/HO M/N}$ $= > -(5,35) + 0.14$ $+0.14$	Zb \ To \ Yo	
⇒-80.5,640 (1+70 25,640 ⊗3,78 KN 40 KN 40 KN +5.6 KN/40 KN =>-(5,35)+0,14 (+0,14)		
03,78KN (40KN) 40KN 1+5.6KN/40KN =>-(5,35)+0,14 1+0,14	Υ ο	
+ 5.6 Kn/40 Kn => -(5,35) +0,14 (+0,14)	>-80.5,640 1+70 25,640	3-3
=> - (5,35) + 0,14 (+0,14	83,78 Kn (40 Kn) 40 RN	( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (
(+0,14		
	=> - (5,35) +0,14	
	( + O <sub>1</sub>	
1=2-4,57	[=2-H,S7]	100

22.

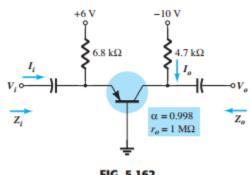


FIG. 5.162 Problema 22.

al = IE = VEE - VBE	
RE	\ Zo = Bc = 4,7k2
= 6v - 0,7v = 0,779mA)	
6,8Kn	) C) Av= aRc = (0,998 · 4,7km)
Ve = - 26mV	33,38 N
IE	=1140,52
= 26mV - 33,38 a	
O,77amA	
/	
) Zi = RE //re	
68 KM · 33,38 N	
6,8K1+33,39N	
= [33,224	