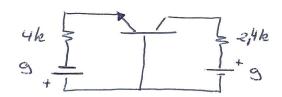
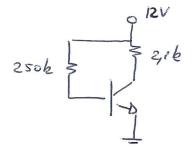
LISTA DE EXERCÍCIOS

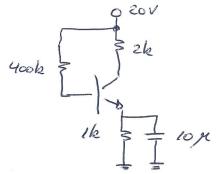
1) Determine: Voe, VCB, Ie e Ic para x=0,95



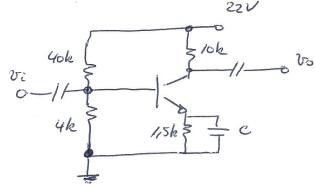
2) Determine: Vce, IB, Ic e IE para B=50

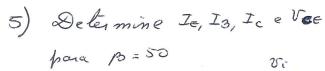


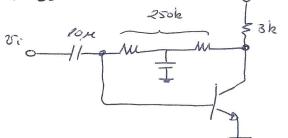
3) Determine: ve, IB, Ic e Ie para p= 100



4) Determine: VCE, IB, IE, IC e VE para PD=140



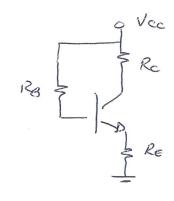




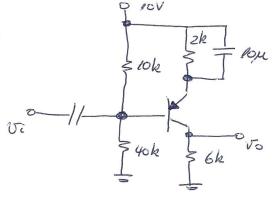
6) Determine Ro, Ro e Re

para p=90, Icq=5mA,

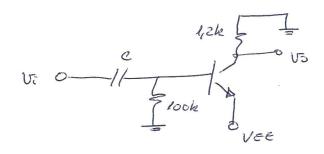
Vec= = 10 Vcc, Vcc = 20V



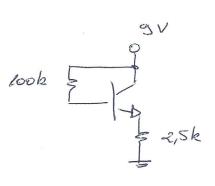
7) Determine Is, Ic, IE, VEC para po= 180



8) Determine Ic, Is, IE, VCE
para VEE = 9 e p = 45



9) Determine Ie, Ic, IB & VCE para po= 45

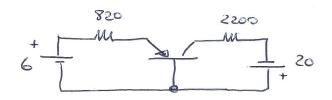


Para es exercicios a seguir utilize:
$$x = 0,99$$

$$I_{CBO} = 10^{-8} A$$

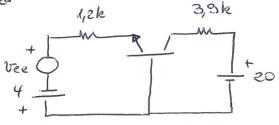
$$|V_{BEO}| = 0,6 V$$

10) Calcule Ica, Vasa, Ica



11) Determine: Ica, Vesa, Velpara Vee = 3 sen wt

vee 0



- 12) Refetir o exercicio anterior com vee = 0,3 senut. Você notou algo estranho no exercicio anterior? Explique.
- 13) Calcule Isa, Ica, Vcea e Vce. Repita o exercicio para Vel = 0,2 senut. O que es exercicios 11 e 13a têm em com um?

