6) A-18. Para el amplificador de la Fig. A-9: $V_{BB}=2~V$; Transistor de Si NPN: $\beta_F=100$; $V_{CE(sat)}\approx0V$ a) Hallar el punto de reposo Q: (Icq ;VcEq), IBq, VEQ, VBQ y Vcq para: I) $R_B = 100 \text{ K}\Omega$ II) $R_B = 50 \text{ K}\Omega$ III) $R_B = 5 \text{ K}\Omega$ IV) $R_B = 100 \Omega$ b) Trazar el lugar geométrico de los distintos puntos Q obtenidos sobre el plano Ic - VcE (curva de carga). Analizar la relación entre esta curva de carga y la RCE. 010V=Vcc 1KD=Rc RB X VBB 2 V 100 SZ = RE IF MAD: VBF = 0,7 VBB- IBRB-VBE-IERE = O IF = (B+1) IB = 201 IB VCC - ICRC - VCE - IERF = 0 Ic-Br. IB IF + IB+ Ic = 0

$$\begin{cases} 2V - I_{B}R_{0} - O_{1}V - I_{E} - 100D = 0 \\ 10V - \beta_{F}I_{B}1KD - V_{CE} - I_{E} \cdot 100D = 0 \end{cases}$$

$$\begin{cases} 2V - I_{B}R_{0} - O_{1}V - 201I_{0} \cdot 100D = 0 \\ 10V - \beta_{F}I_{B}1KD - V_{CE} - 201I_{0} \cdot 100D = 0 \end{cases}$$

$$\begin{cases} 10V - \beta_{F}I_{B}1KD - V_{CE} - 201I_{0} \cdot 100D = 0 \\ 10V - \beta_{F}I_{B}1KD - V_{CE} - 201I_{0} \cdot 100D = 0 \end{cases}$$

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