Subridul B

a) Ic, IB, IE =?

le) VCIVBIVE =? VBB DI

E) Pregimul de functionale? PB = 100

RB=200k-2; Rc=1,5k-2;

RE = 0,5k-2; VBB = +5V;

Vcc = +10V; VEE = OV; VBE sotion = 0,7V; VBEsset = 0,70V; VCE set = 0,2V

Resolvale:

VBB = RB. IB + VBE + RE. IE + VEE

Vcc = Re. Ic + VcE + RE. IE + VEE

Resymmen ca transistant este in regim extin

 $T_{B} = \frac{V_{BB} - V_{EE}}{R_{B} + (\beta + 1)R_{E}} = \frac{5 - 0.7 - 0}{200.10^{3} + 101.0.5.10^{3}}$   $T_{B} = \frac{4.3}{200.10^{3} + 50.5.10^{3}} = \frac{4.3}{250.500} \approx 17.17 \text{ mA}$ 

(1)

Beregnec Adrian

$$I_{c} = \beta \cdot I_{B} = 100 \cdot 17/17 \mu A = 17/17 \mu A \Rightarrow$$

$$I_{E} = (\beta + 1)I_{B} = 101 \cdot 17,17\mu A = 1734,17\mu A$$

ly) 
$$V_c = V_{cc} - I_c \cdot R_c = 10 - 1.717 \cdot 10^{-3} \cdot 1.5 \cdot 10^3$$

$$=>V_C=10-2,575=7,525V$$