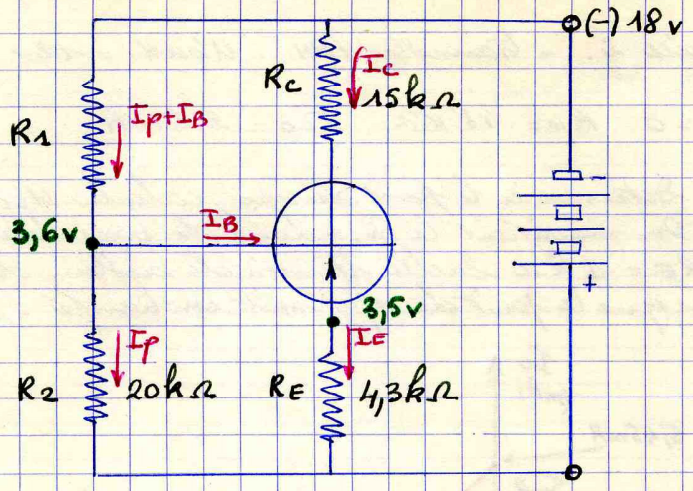
20

37. n°8 page 270. n°9. n°10.



8. a) $I_C = 0,8\,mA$ $I_E = I_B + I_C =$ **0,81 mA.**
$U_{BE} = 0,1\,v$

b) $R_E = \dfrac{U_{bat} - R_C . I_C - U_{CE}}{I_E} = \dfrac{18 - 1,5 \times 0,8 - 2,5}{0,81}$.

$R_E = \dfrac{3,5}{0,81} =$ **4,3 kΩ.**

c) $U_{BM} = 3,8 + 0,1 = 3,6\,v$.
$I_{depart} = \dfrac{U_{BM}}{R_2} = \dfrac{3,6}{20} =$ 0,18 mA ou **180 µA.**

$(I_p \gg I_B)$

$R_1 = \dfrac{U_{R1}}{I_p + I_B}$. $U_{R_1} = 18 - 3,6 = 14,4\,v$

$R_1 = \dfrac{14,4}{180 + 10} = \dfrac{14,4}{190} =$ 0,075 ~~780~~ MΩ

$R_1 =$ ~~76.580~~ Ω # **70.580 Ω** **75.800 Ω**

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$\Delta I_C \uparrow \Rightarrow I_E \uparrow \Rightarrow U_{EM} \uparrow \Rightarrow U_{BE} = (U_{BM} - U_{EM}) \downarrow \Rightarrow$

$I_B \downarrow \Rightarrow I_C \downarrow$