Eléments de correction

Partie A

A1 $R12 = 10k\Omega - 3,5k\Omega = 6,5k\Omega$

$R13 = 10k\Omega$

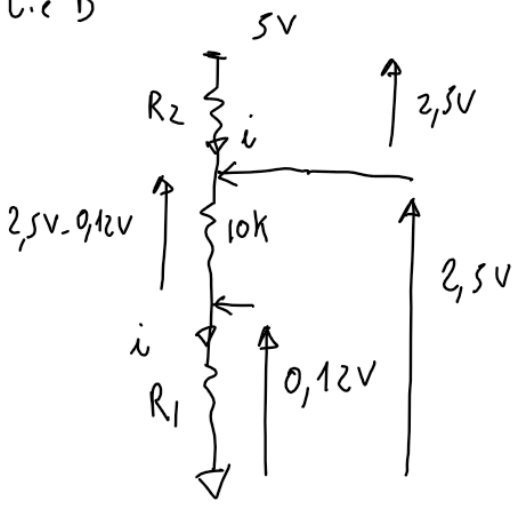
A2 $V_{R\,min} = 0$ $\qquad V_{R\,max} = \frac{10k}{10k + 20k} \times 3V = 1V$

A3 Div → GND donc $N = 1$

$f_{osc\,max} = 10MHz \times \left(\frac{10k}{33k}\right) = 3,03\,MHz$

$f_{osc\,min} = 10MHz \times \left(\frac{10k}{43k}\right) = 2,33\,MHz$

Partie B



$i = \frac{2,5V - 0,12V}{10k} = 238\mu A$

$R1 = \frac{0,12V}{i} = 504\,\Omega$

$R2 = \frac{2,5V}{i} = 10,5\,K\Omega$