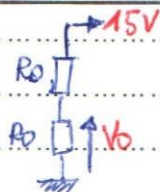


DREP 05

Q30: Avec l'hypothèse $e_0 = 0$, on aura :

$$\text{donc } V_0 = \frac{R_0}{R_0 + R_0} \cdot 15 = \frac{15}{2} = 7,5V$$

(Diviseur de tension).

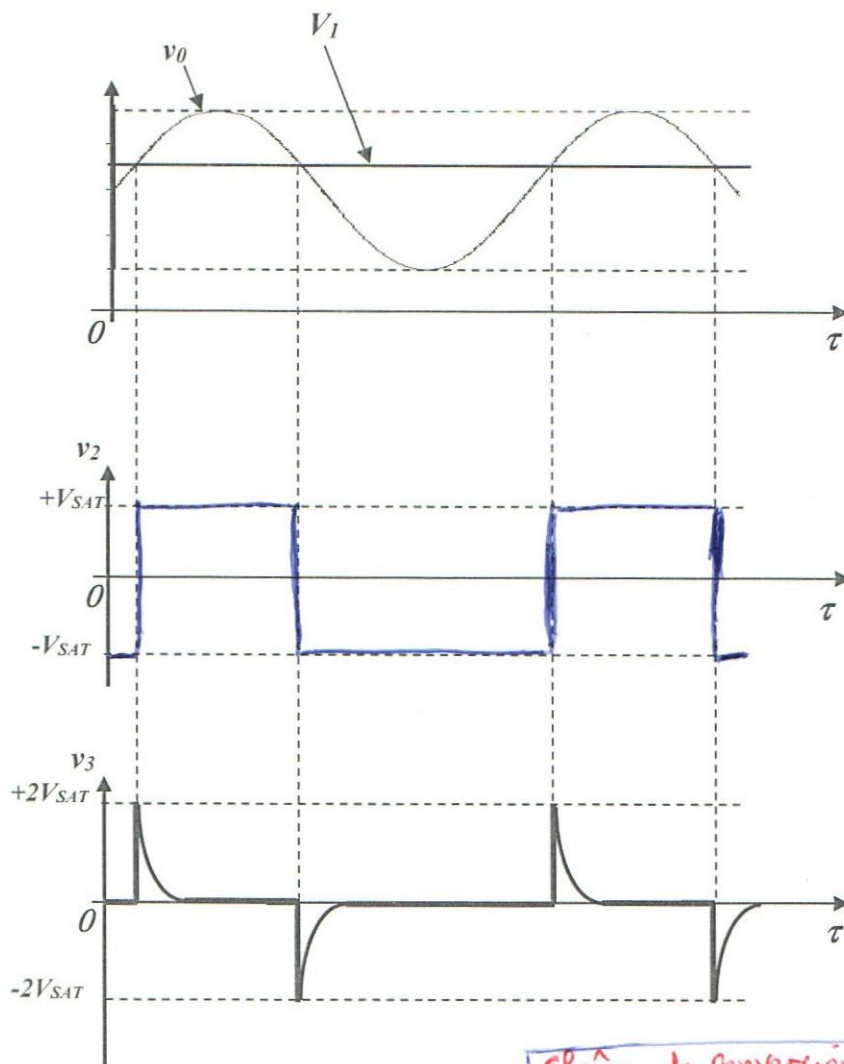


Jaafar

$$Q31: \text{De m\hat{a}}, V_1 = \frac{R_2}{R_1 + R_2} \cdot 15 \Rightarrow (R_1 + R_2)V_1 = 15R_2$$

$$\Rightarrow R_2 = \frac{R_1 \cdot V_1}{15 - V_1} = \frac{10 \cdot 10^3 \cdot 7,75}{15 - 7,75} = 10,69 k\Omega$$

Q32:



c'est un comparateur simple non inverseur

Q33: c'est un monostable

Q34: Bloquer "-VSAT"

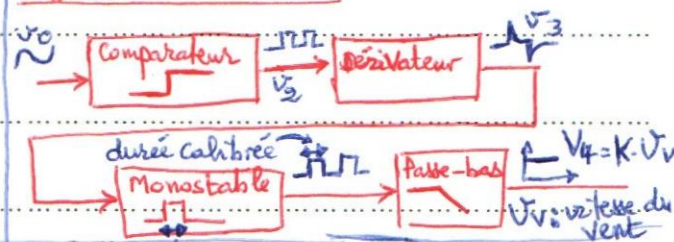
Q35: c'est un filtre passe-bas

$$\text{ona } V_4 = 0,095 \cdot f = 0,095 \times 3,34 V_V$$

$$Q36: V_{41}: V_{41} = 0,095 \times 3,34 \times V_{V1} = 0,095 \times 3,34 \times \frac{72}{3,6} = 6,346V$$

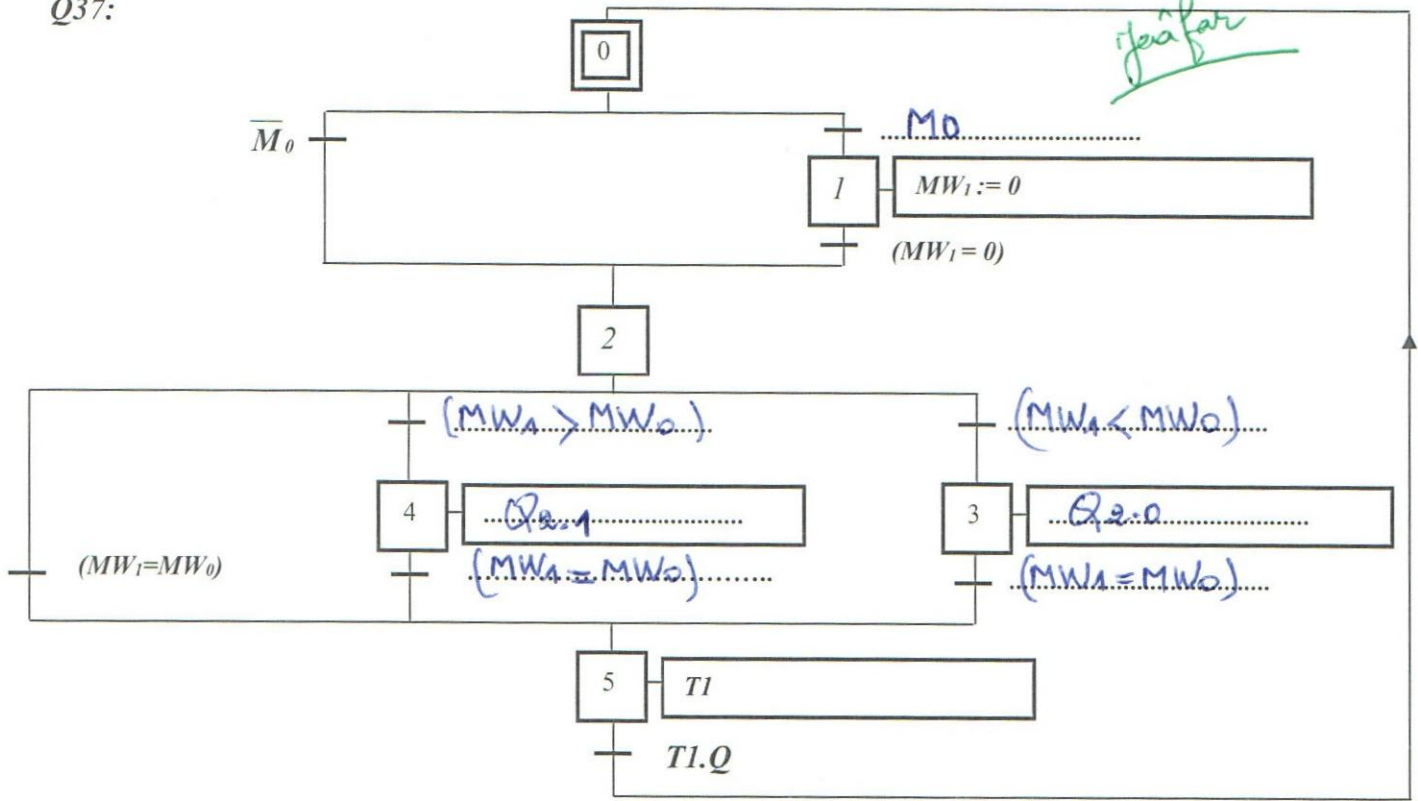
$$V_{42}: V_{42} = 0,095 \times 3,34 \times \frac{54}{3,6} = 4,76V$$

Chaîne de conversion



$$\text{et } V(km/h) = V(m/s) \times 3,6 \quad \text{donc}$$

Q37:



Q38:

