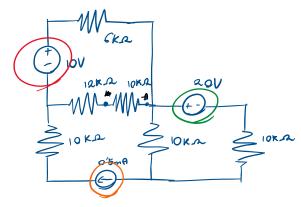
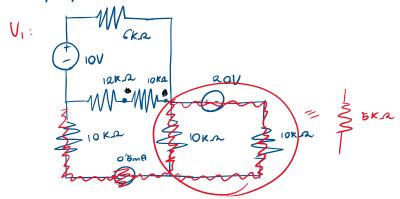
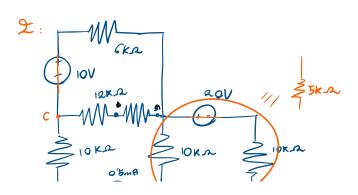
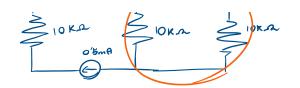


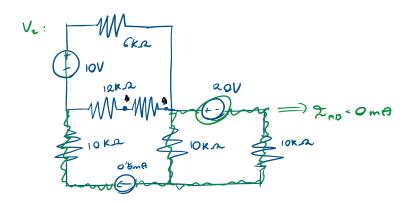
## a) Ing y Vas



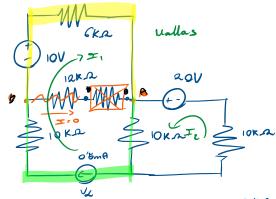








## b) Eq. Th y N (Ry de carga



Ry : Anveamos fuentes => a - M - M - B

V<sub>Th</sub>: = V<sub>AB</sub>

Por mallas: | Halla 1: V<sub>L</sub>+10V = \(\tau\_1(26)\)\(\text{Ka} + \tau\_1(10)\)\(\text{Ka}\)

Halla 2: ROV = \(\tau\_2(26)\)\(\text{Ka} + \tau\_1(10)\)\(\text{Ka}\)

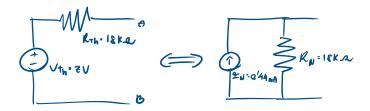
Por el camina senalado

Un+ 2,(6)Ka-10V = U - Va-Vs = 7V

Por el camino señalado

UB + (x,+x2) 10ka - U2 + 2, 10ka = UA

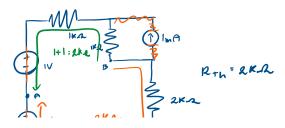
VA-VB = 12'5V - 10'5V + 5V - 7V - R+h

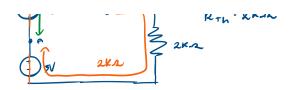


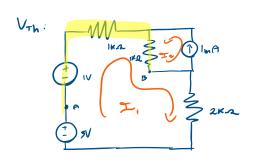
## b) Comprueba

a) Eq. Th

RTh: anvlamos fuentes





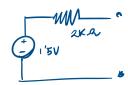


Por el camino señalado

VA+1-21-(21+22) = VB=) VA-VB= RX1+22-L

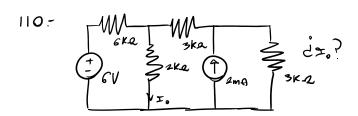
VAB = 1'5 V/

Luego



6) P= P== Va. 2=1/25V · Ima = 1/25mW

Se comporta como fuente ya que su sentido coincide con el de la conviente de la rama También que V670/



for el principio de superposición

V: -Weka ska

V: 
$$\frac{e}{6ka}$$
  $\frac{e}{3ka}$   $\frac{e}{3ka}$   $\frac{e}{6ka}$   $\frac{e}{6ka}$   $\frac{e}{3ka}$   $\frac{e}{6ka}$   $\frac{e}{3ka}$   $\frac$ 

b) max i(t)

$$\frac{di(t)}{dt} = \Omega(1-4t)e^{-4t} = C1-4t)e^{4t} = 0 = 1-4t = 0$$

$$t = 0.25$$

Compresbamos

$$\frac{d^{2}i(t)}{dt} = 2\left(-4(1-4t)e^{4t} + (-4)e^{4t}\right) = -8\left(2-4t\right)e^{4t}$$

$$i''(0'25) = -8\left(2-1\right)e^{-1} = -\frac{8}{e} < 0 \implies i(t) \text{ mox en } t = 0'255$$

c) min en u(t)

$$\frac{d_0(t)}{dt} = -0.8(2-4t)e^{-4t}$$

$$1-2t = 0 \implies t = 0.55$$

$$v''(0.5) = 0.45 > 0 \implies v(t) \text{ min en } t = 0.55$$