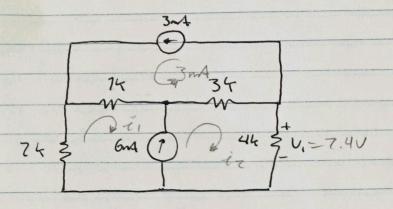
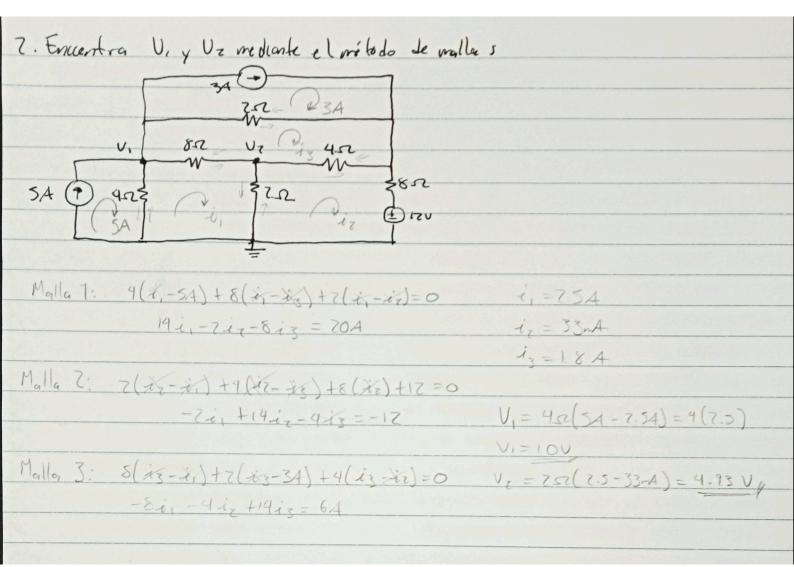
## 1. Analiza el signeste arcuto mediante el método de mollas y excuentra Uz.

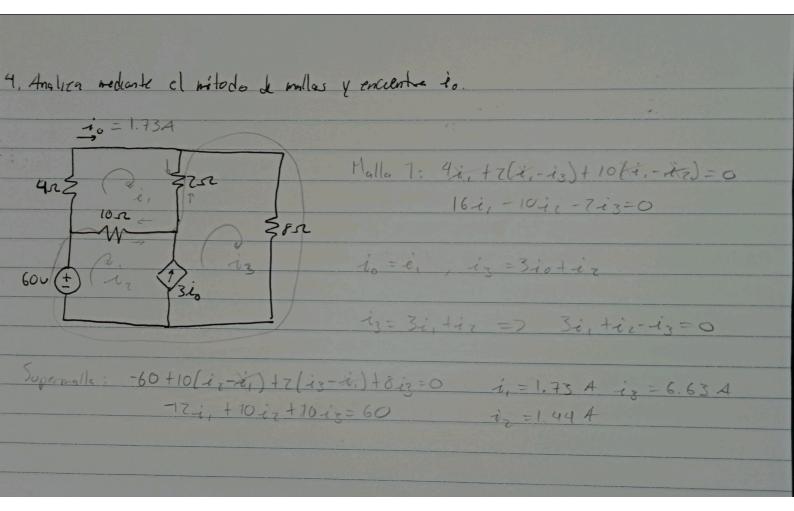


74 i, +74(i,+3mA) +34(i,+3mA) +44i,=0 i,+3mA+6mA=i,2+3mA 74i,+74i,+3+34i,2+9+44i,=0 i,-i,=-6mA 34i,+74i,=-12 i,=i,-6mA

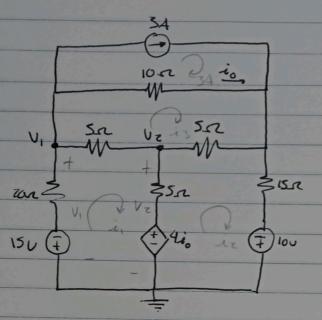
3+(iz-6nA)+7+iz=-12  $i_1=0.6nA-6nA$  3+iz-18+7+iz=-12  $i_1=-5.4nA$ 10+iz=6

iz = 6 = 0.6 ms V, = 4 k (0.6 ms) = 7.4 V





3. Calcula los voltages V, y Vz mediante el pritodo de mallos. V, se midedeade el rado que indica U, hasta tierra. Vz se mide desde el nodo donde se indica Vz hasta livra



io=i3-3A
io=1.64-3=-1.364

io+3A=i3

 $V_1 + 15 + 70i_1 = 6$   $V_1 = -15 - 70(0.0414)$   $V_1 = -15.87V$ 

 $V_z = 4i_0 + 5(i_z - i_1) = 0$   $V_z = 4i_0 - 5i_z + 5i_1$   $V_z = 4(-1.56) - 5(0.57) + 5(0.04)$  $V_z = -7.83V_{ff}$ 

 $15+70i, +5(i,-i)+5(i,-i)+4i_0=0$   $15+70i, +5i, -5i_3+5i, -5i_2+4(i,-3)=0$   $30i, -5i_2-5i_3+4i_3-17=-15$   $30i, -5i_2-i_3=-3$ 

 $\frac{Malla l:}{-4i_0 + 5(i_2 - i_1) + 5(i_1 - i_3) + 15i_2 - 10 = 0}$   $-4(i_3 - 34) + 5i_2 - 5i_1 + 5i_2 - 5i_3 + 15i_2 - 10$   $-4i_3 + 17 - 5i_1 + 75i_2 - 5i_3 = 10$   $-5i_1 + 75i_2 - 9i_3 = -7$ 

 $M_{alla} 3: S(i_3-i_1)+10(i_3-3)+5(i_3-i_1)=0$   $Si_3-Si_1+10i_3-30+Si_3-Si_1=0$  $Si_1-Si_1+70i_3=30$ 

> $i_1 = 0.0419$   $i_2 = 0.57A$  $i_3 = 1.64A$

Malla 1