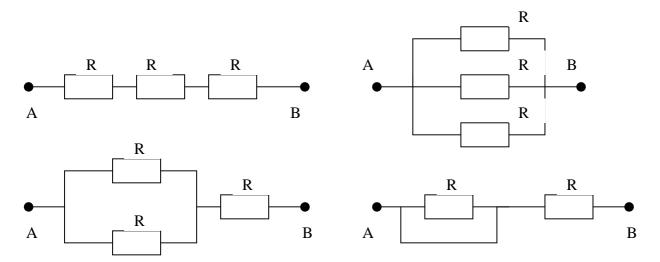
ORAL WORK N°2 ON CONDUCTORS

PART 1

a) Complete the following:

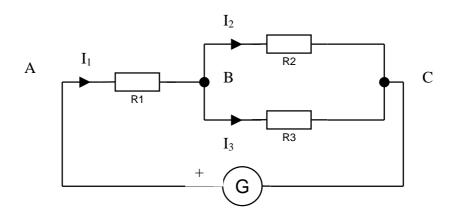
If U against I graph of a conductor is a straight line passing through the origin, the conductor is a one. An example is the

- b) Sketch I against U graph of a diode.
- c) Calculate the equivalent resistance of the following circuits with $R = 1 \text{ k}\Omega$.



PART 2

The following circuit is given:



The generator delivers a constant voltage V_{AC} = 10 V. R_1 = 75 Ω , R_2 = R_3 = 50 $\Omega.$

- a) Note $V_{AB},\,V_{BC}$ and V_{AC} on the circuit.
- b) Calculate the equivalent resistance of the circuit.
- c) Apply Ohm's law to calculate I₁.
- d) Calculate the equivalent resistance of R_2 and R_3 and hence calculate V_{BC} .
- e) Calculate I₂ and I₃.