LITE CLASS

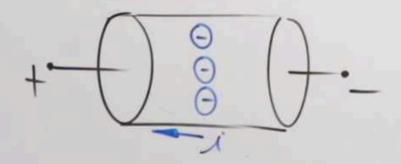
ELECTRODINAMICA

ESTUDIA LAS CARGAS ELECTRICAS EN MOVIMIENTO.

CORRIENTE EléCTRICA:

Fluto DE CARGAS ELECTRICAS QUE PASAN POR EL CONDUCTOR.

CORRIENTE REAL



CORRIENTE CONTENSIONAL

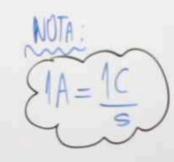




INTENSIDAD DE LA CORRIENTE ELÉCTRICA (1)

$$\left(i = \frac{q}{t}\right)$$

9: CARGA ElECTRICA (COULOMB = C)



t: TIEMPO(S)

i: INTENSIDAD DE LA CARRIENTE ELECT. (AMPERE=A)



LEY DE OHM:

NV: VOITAJE O DIF. DE POTENCIA!

P= RESISTENCIA ElécTRICA (OHMIO= R)



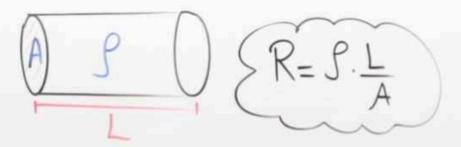






V: VOITATE (VOITIO)

LEY DE POULLIET;



L. LONGITUD (M)

A: AREA DE LA SECCION TRANSVERSAL (m2)

P. RESISTIVI DAD ELECTRICA (J2.m)





POTENCIA CONSUMIDA: (P)

P=V.i P=i²R S.I. P= v² P(Watt=Vadio)



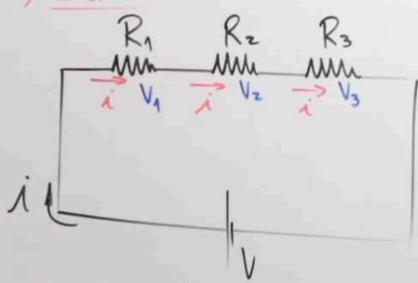




ITECLASS CLASS

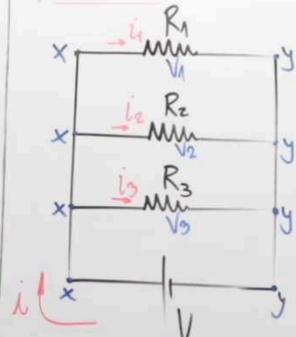
ASOCIACIÓN DE RESISTENCIAS EleCTRICAS:





$$V_1 + V_2 + V_3 = V$$

2) PARAlelo:





$$\lambda_1 + \lambda_2 + \lambda_3 = \lambda$$

$$\frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} = \frac{1}{R_{eq}}$$

/ Si son 2 Resist.

/ Si "n" RESIST. IGUALES

LITE CLASS LASS

PUENTE DE WENSTHONE :

RAND R3

RAND R3

RY

RY

RY

RY

Sii (RxRz=R8xR4)

-> R5 SE DESCONECTA.

Leyes DE KIRCHOFF :

1) LEY DE " JE NODOS :

Z I ENTRANT Z I SALE

Ry Rzwiz Num Rzwiz Rywis Rwis

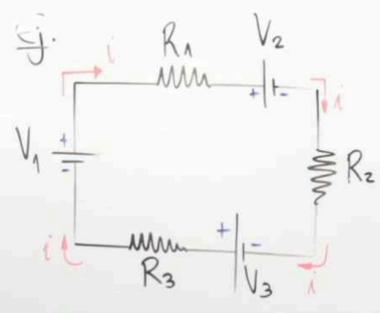


ELITE CLASS

2) Ley Delos VolTATES O MALIAS .



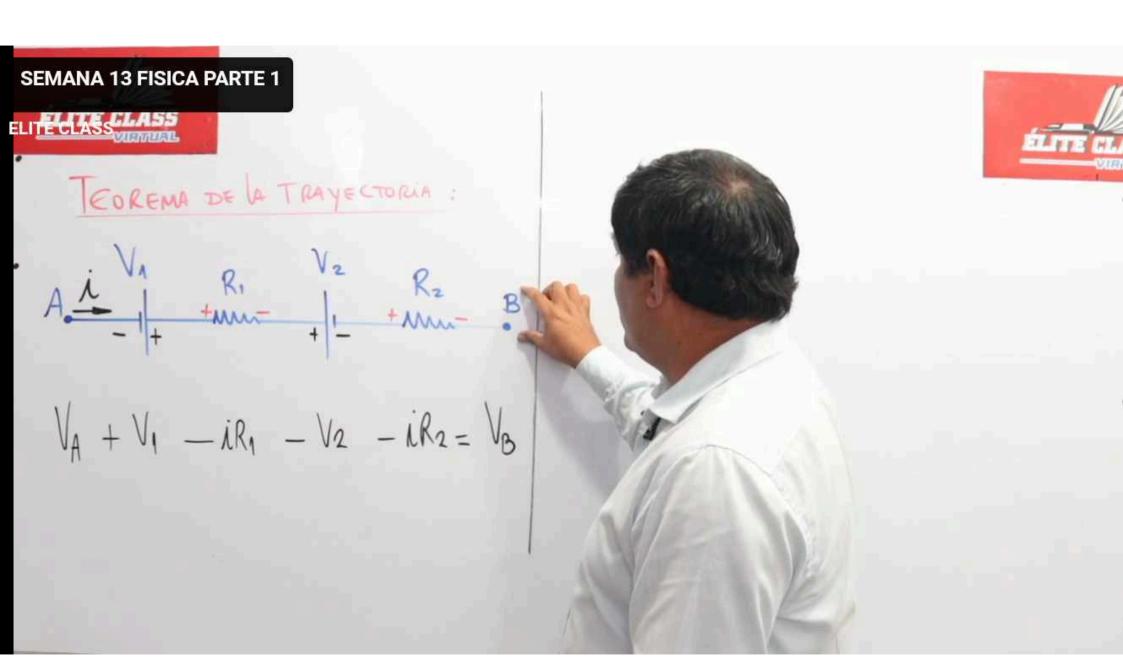
CIRCUITOS SIMPLES



$$\sum_{i} V = \sum_{i} R$$

$$V_{1} - V_{2} + V_{3} = i R_{1} + i R_{2} + i R_{3}$$





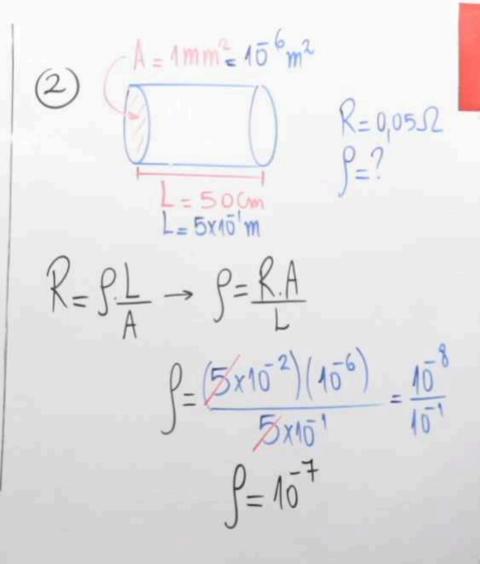
LITE CLASS

1
$$\lambda = 16 \text{ mA} = 16 \times 10^{3} \text{ A}$$

 $\lambda = 10 \text{ min} = 600 \text{ S}$
 $\lambda = 10 \text{ min} = 600 \text{ S}$

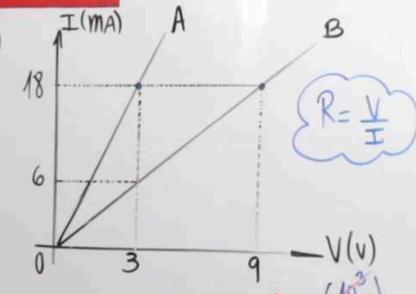
*)
$$9 = i.t$$

 $9 = (16 \times 10^{-3})(600)$
 $9 = 96 \times 10^{-1}$ C
*) $11 = 96 \times 10^{-1}$ C
 $11 = 96 \times 10^{-1}$ C







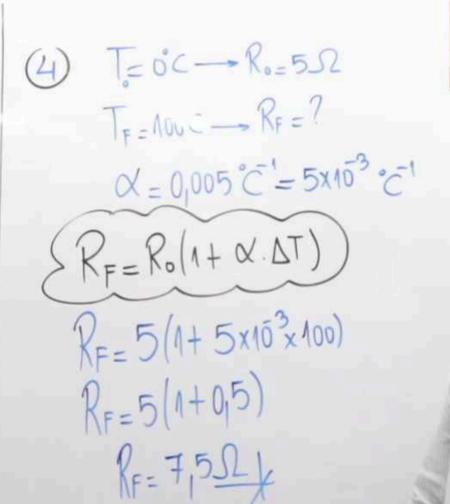


$$R_{B} = \frac{3}{18 \times 10^{-3}} \Omega = \frac{10^{3} \Omega}{6} \Omega$$

$$R_{B} = \frac{9}{18 \times 10^{-3}} \Omega = \frac{10^{3} \Omega}{2} \Omega$$

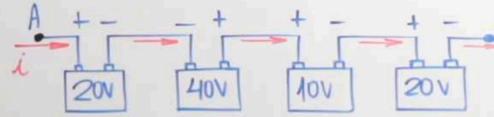
$$\frac{R_{A}}{R_{B}} = \frac{\left(\frac{10^{3}}{6}\right)}{\left(\frac{10^{3}}{2}\right)} = \frac{2}{6}$$

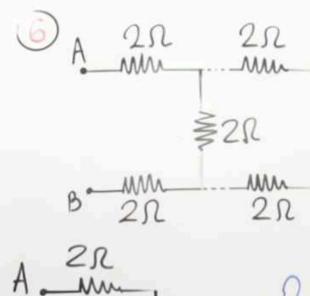
$$= \frac{1}{3}$$

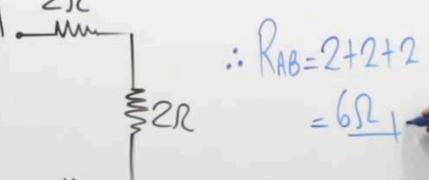


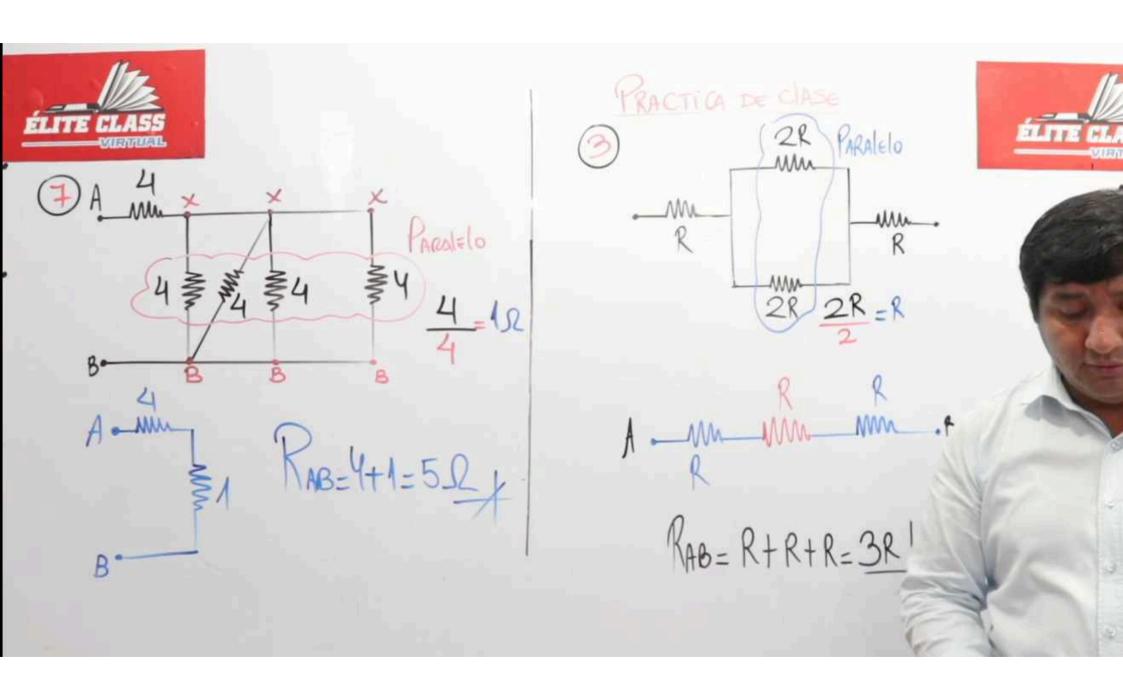






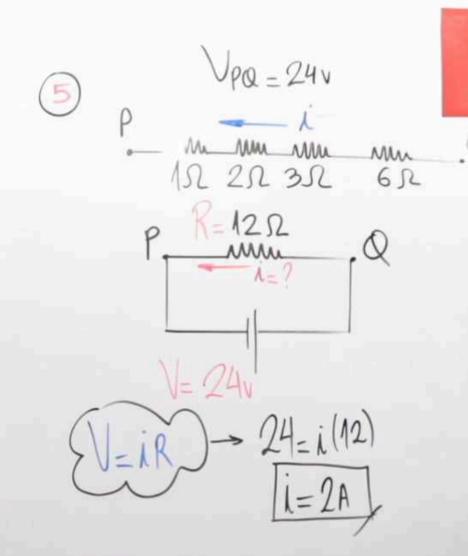


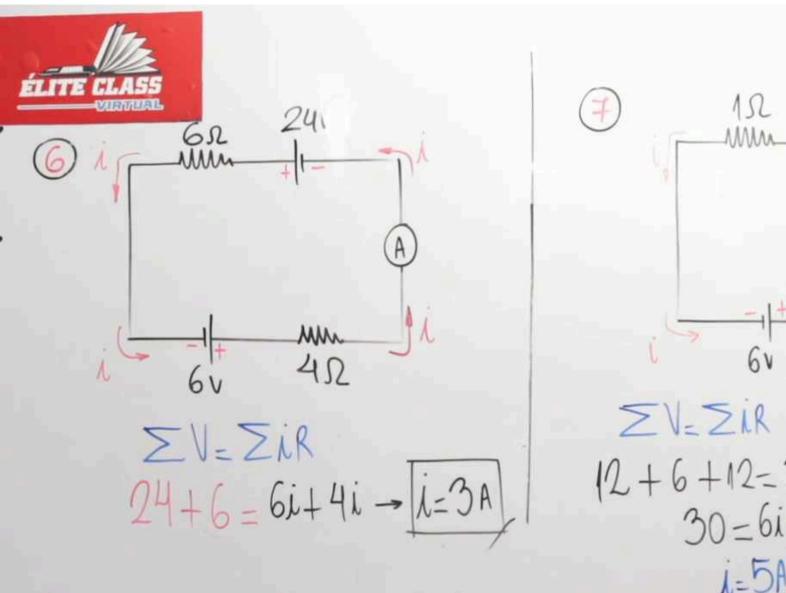


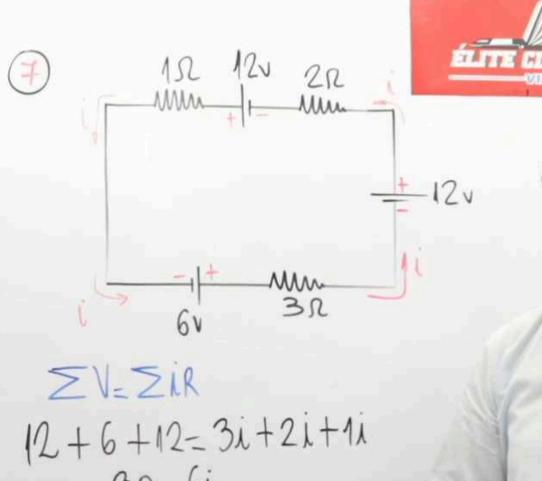


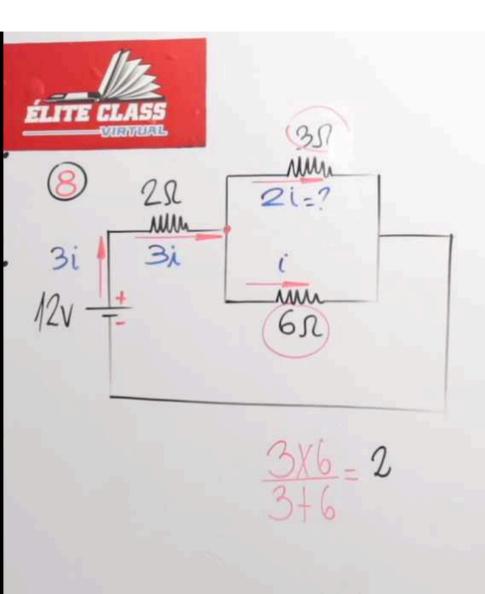


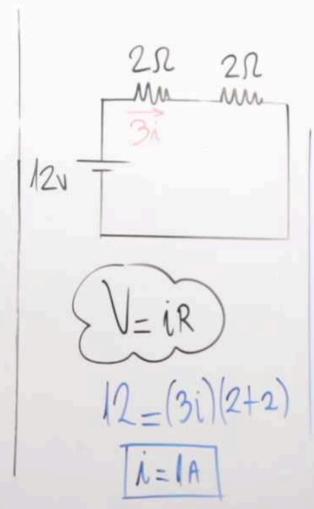
212 3R RAB=5R





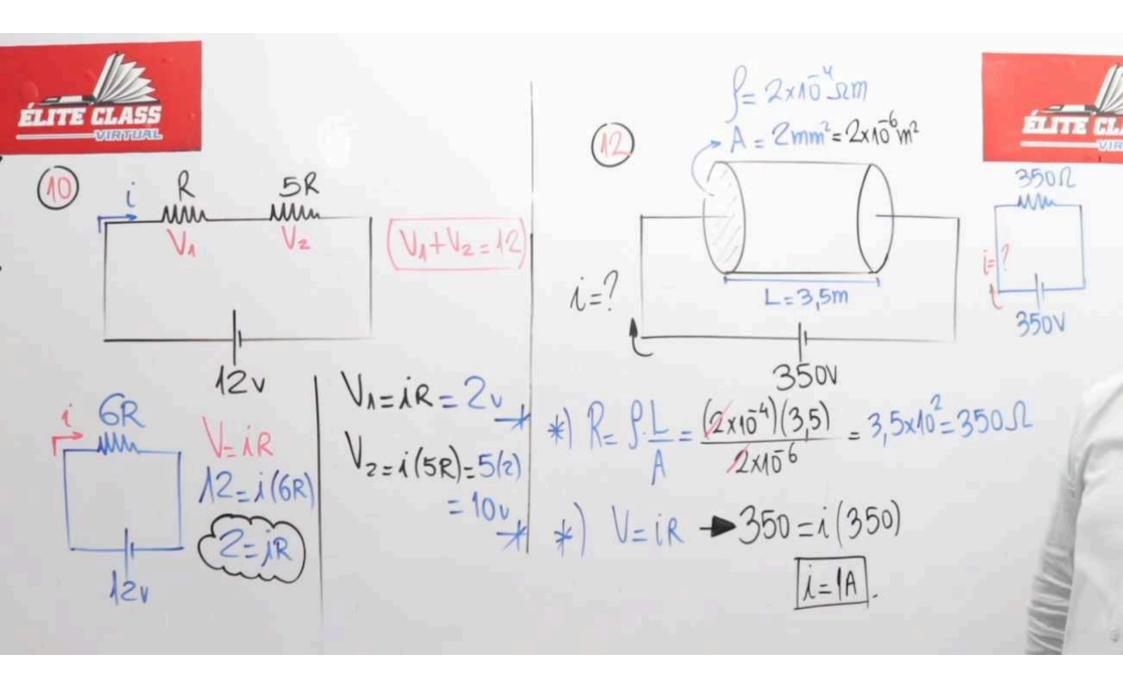




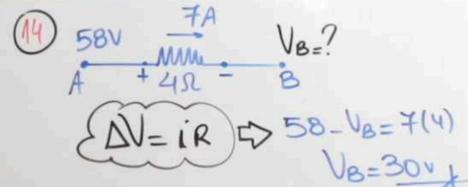


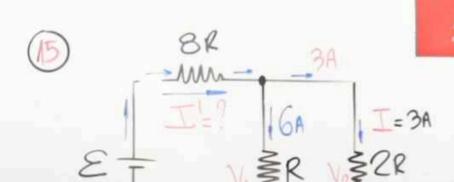


Rpta: 2i = 2(1) = 21









$$V_1 = V_2$$
 $I' = 3A + 6A$
 $6R = I(2R)$ $I' = 9A'$
 $I = 3A$

