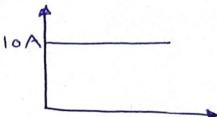
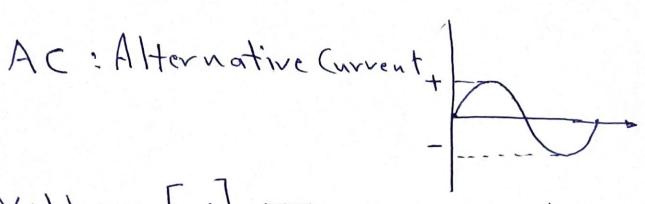


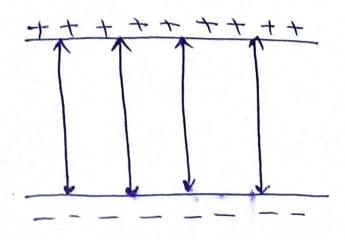
DC: Direct Current 10A





Voltage [V]: The Potential defference between tow Points

Current [I]: The rate of Charge moving in a Certain metal.

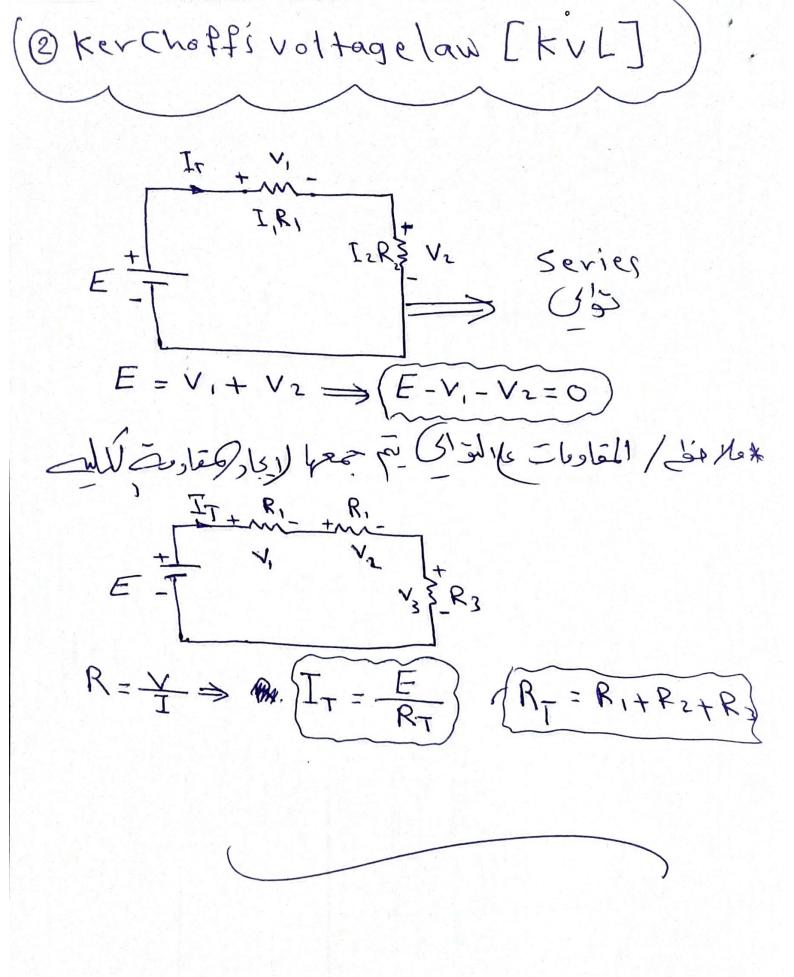


(Voltage Source Current Source (ohms law) $R = \frac{V}{T}$, $I = \frac{V}{R}$, V = I.RR[JZ], V[V], I[A] Amp

$$P = \frac{V^2}{R}$$

(Kirchoff's law 1) Kirchoff's Current low (KCL) I,= I2+I3+I4 T4 I,+[==[3+]4 $E \rightarrow I_1 \qquad I_2 \qquad I_3 \qquad I_4$ $E \rightarrow I_1 \qquad R_1 \stackrel{?}{>} \qquad R_2 \stackrel{?}{>} \qquad R_3 \stackrel{?}{>} \qquad R_4 \longrightarrow Pava Mal \qquad S!'y'$

(4)



Voltage divider rule (VDR)

Vx = E.Rx

RT

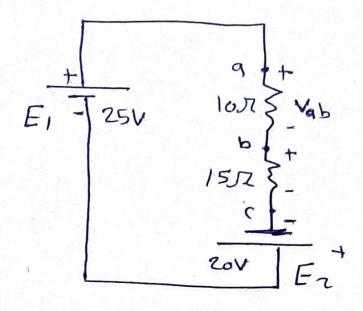
Ex. Determine the voltages V., Vz and V' for the Cir Cuit Shown

$$V_{1} = \frac{E \cdot R_{1}}{R_{T}}$$
 $V_{1} = \frac{50 \times 3}{14} = 10.7 \text{ V}$

$$V_2 = \frac{50 \times 5}{14} = 17.85 \text{ V}$$

Figure 1 see The Expression $E_1 + \frac{E_1}{1} + \frac{E_2}{1} + \frac{E_2}{1} + \frac{E_3}{1} + \frac{E_1}{1} + \frac{E_2}{1} + \frac{E_3}{1} + \frac{E_1}{1} + \frac{E_2}{1} + \frac{E_2}{1} + \frac{E_3}{1} + \frac{E_3}{1} + \frac{E_3}{1} + \frac{E_3}{1} + \frac{E_3}{1} + \frac{E_4}{1} + \frac{E_5}{1} + \frac{E_5}{1} + \frac{E_7}{1} + \frac{E_7}$

EXFIND Vab and Vac for the Circuit Shown



Vab = ? Vac = ?

ET = E1 + E2 = 45V

·RT = Rab+ Rbc = 25 17

Vab = ET. Rab = 45 *10 - 18 V

Vaic = ET-Rac = 45 * 25 = 45 AV

