

basis

Electricity And Magnetic field

Ohm's law →
ओम का नियम
 \Downarrow

$$V \propto I$$

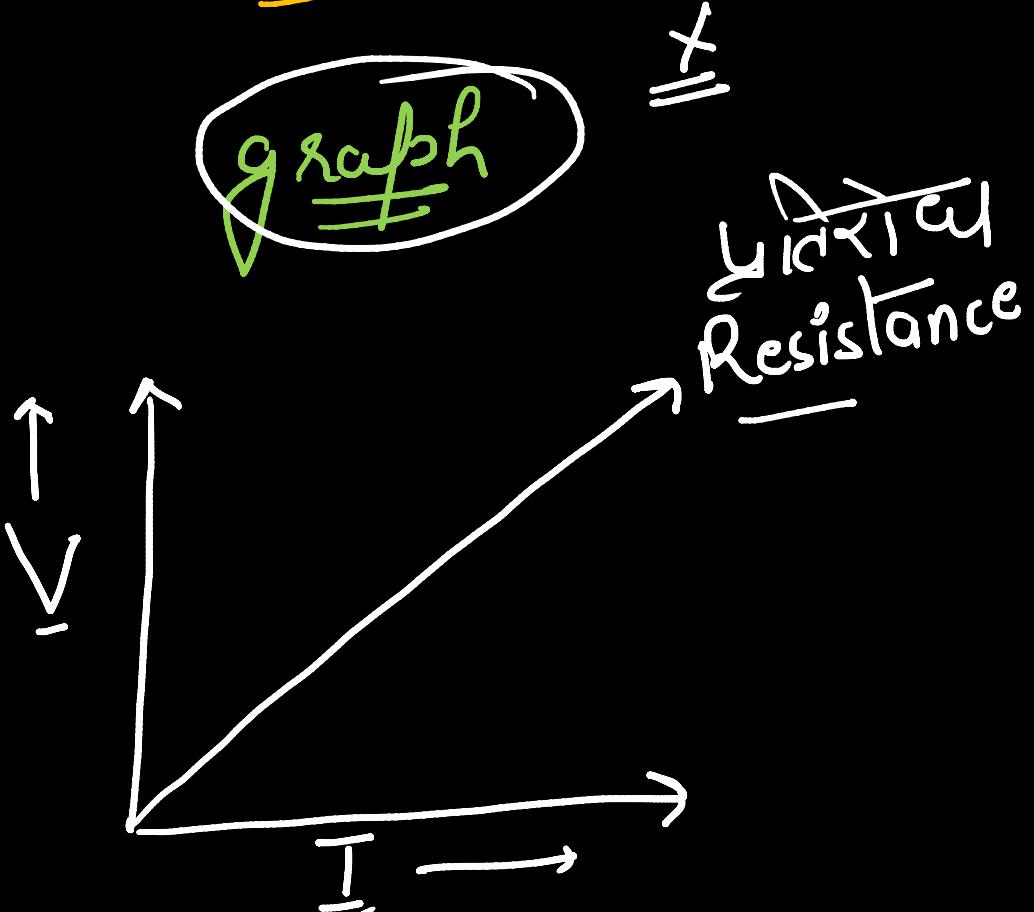
Voltage Current

$$\frac{\text{inc}}{\text{dec}} \rightarrow V \propto I \rightarrow \frac{\text{inc}}{\text{dec}}$$

$$V = IR$$

$$R = \frac{V}{I}$$

$R = \text{Resistance}$
 Electricity





glow $\frac{1}{\sqrt{R}}$ $\Rightarrow R = \text{less}$ $\frac{1}{\text{on it}}$ $\Rightarrow R = \frac{\vee}{I} \rightarrow \text{more}$

dim $\frac{1}{\sqrt{R}}$ $\Rightarrow R = \frac{\wedge}{\sqrt{I}}$ $\rightarrow \text{less}$



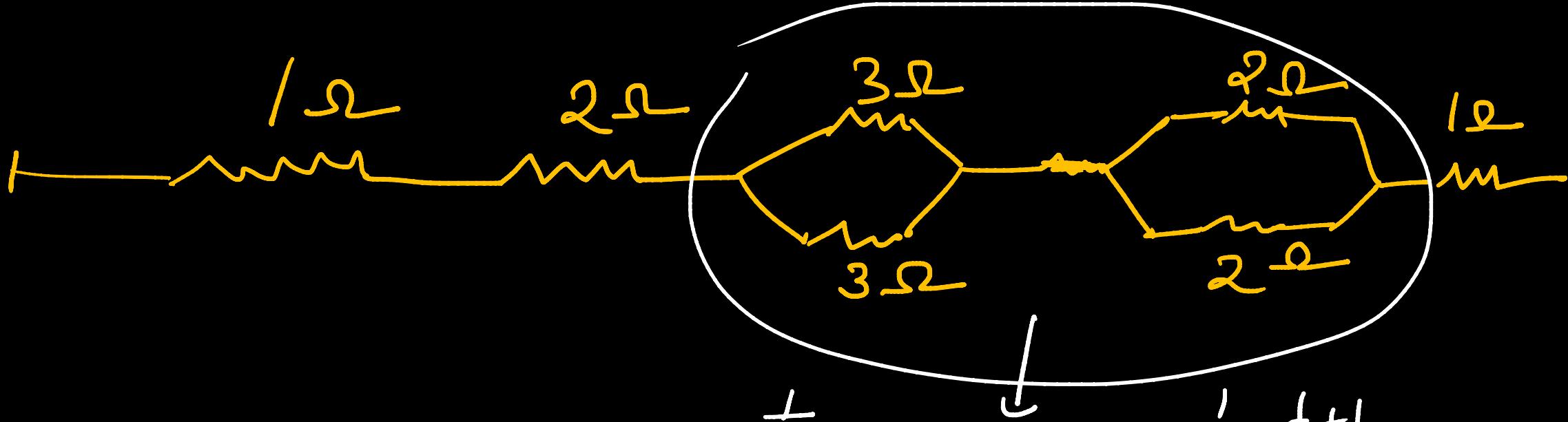


dim $\frac{1}{\sqrt{R}}$ $\Rightarrow R = \frac{\wedge}{\sqrt{I}}$ $\rightarrow \text{more}$

inc $\frac{1}{\sqrt{R}}$ $\Rightarrow R = \frac{\vee}{I} \rightarrow \text{dec}$ $\frac{1}{\sqrt{R}}$



$$R = R_1 + R_2 + R_3$$



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

$$\frac{1}{R} = \frac{1}{2} + \frac{1}{2}$$

$$\frac{1}{R} = \frac{\frac{2}{3}}{\frac{3}{2}}$$

$$R = \frac{3}{2}$$

$$\frac{1}{R} = \frac{2}{2}$$

$$\frac{1}{R} = \frac{1}{1}$$

$$R = 1$$



$$\Rightarrow = 1\Omega + 2\Omega + \frac{3}{2}\Omega + 1\Omega + 1\Omega$$

(2)

$$\frac{2+4+3+2+2}{2} = \frac{13}{2}$$

AC and DC

Alternating Current

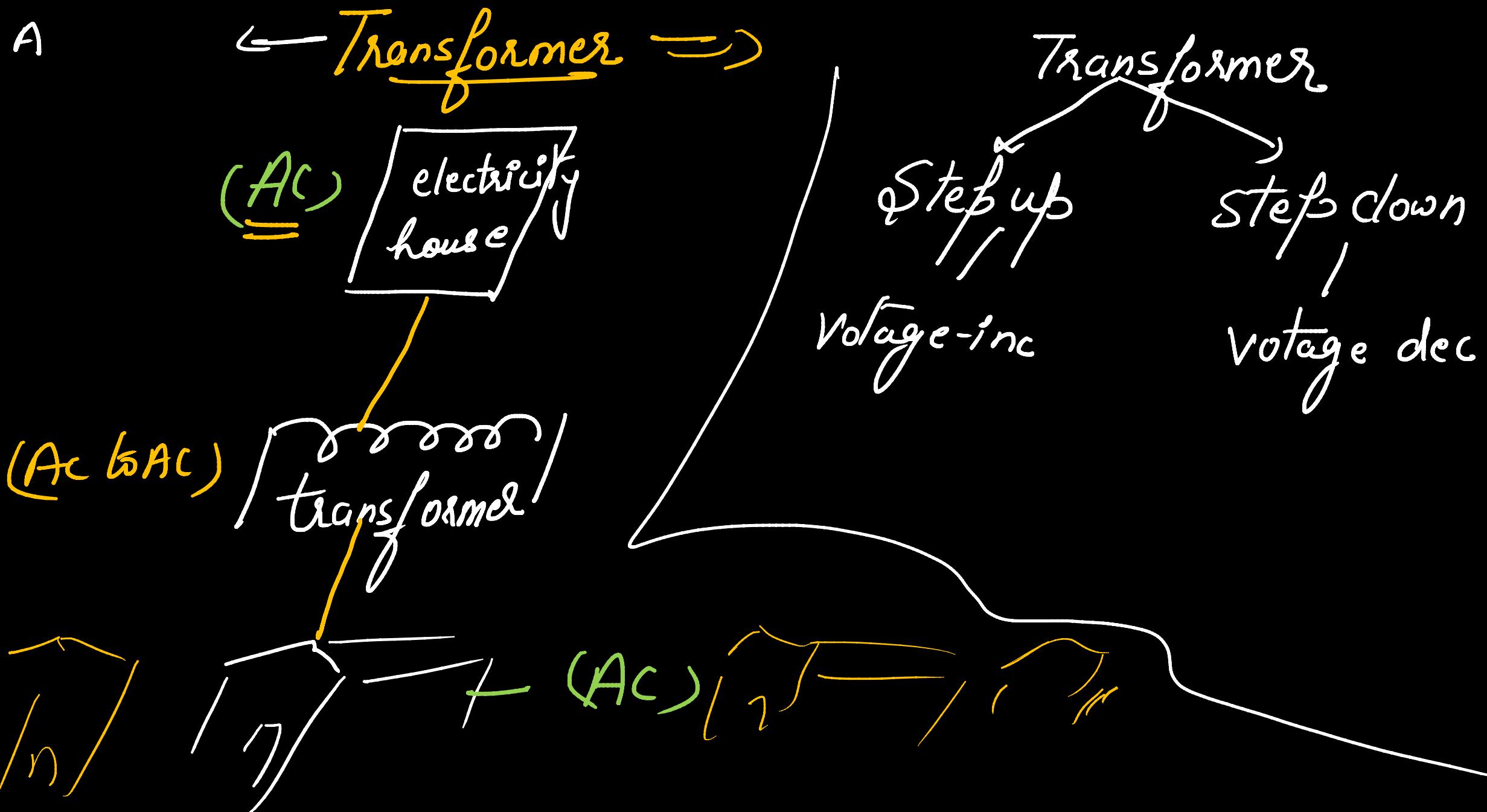
Direct current

Q \Rightarrow Transformer \hookrightarrow AC to AC

Q \Rightarrow Inverter —

Q = Rectifier —

A



100%

Rectifier - mode
~~TP~~
AC to DC
DC to AC

Semiconductor
3EG चालक

both
पर

half cycle
full

