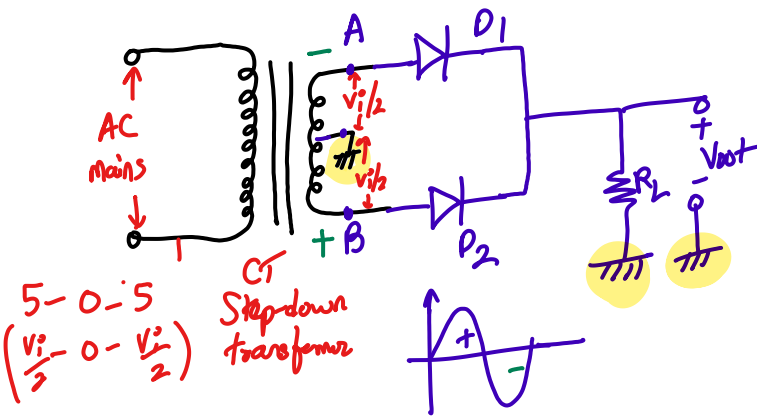
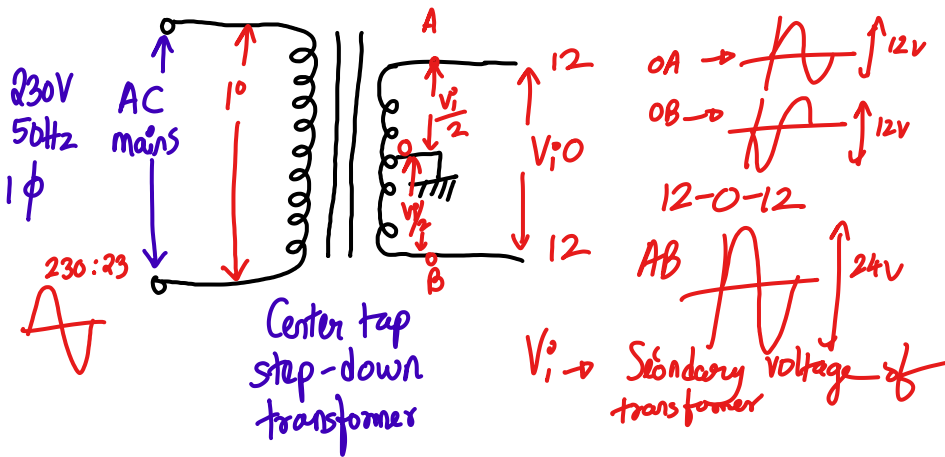
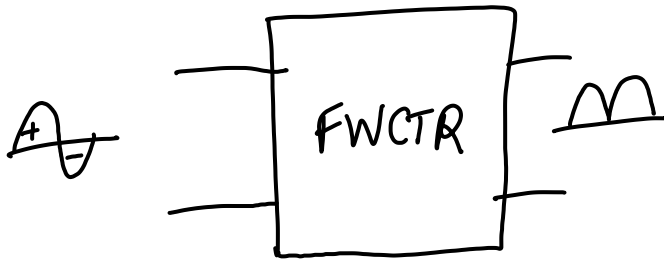
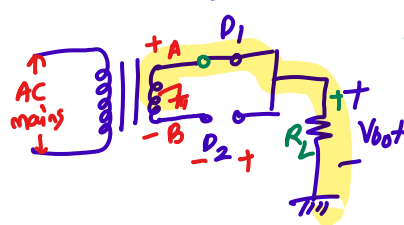


# # Full-wave Center tapped Rectifier:



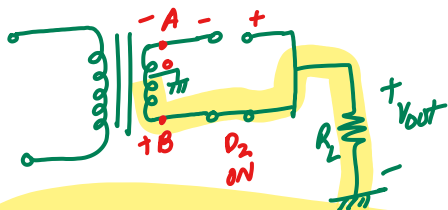
+ve h.c, D<sub>1</sub> F.B → ON  
D<sub>2</sub> R.B → OFF



$$A - D_1 - R_L - A$$

$$V_{out} \rightarrow \frac{V_i}{2}$$

$$I_{out} \rightarrow \frac{2 V_{out}}{R_L}$$



B - D<sub>2</sub> - R<sub>L</sub> - B  
V<sub>out</sub> → +V<sub>i</sub>/2  
I<sub>out</sub> flows

$$V_{out} = \frac{V_i}{2} (V_m \sin \omega t) \quad \text{if } 0 < \omega t < \pi$$

$$= \frac{V_i}{2} (V_m \sin \omega t) \quad \text{if } \pi < \omega t < 2\pi \quad - (1)$$

