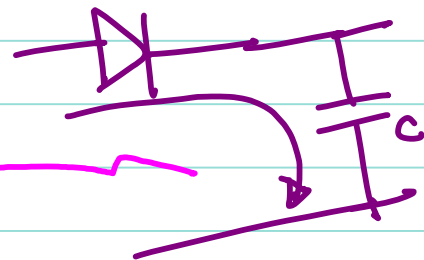
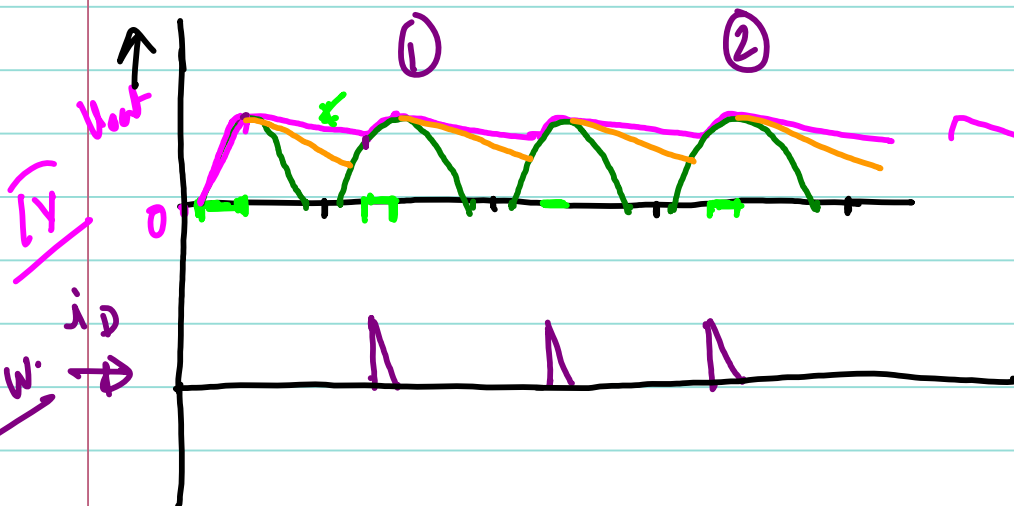
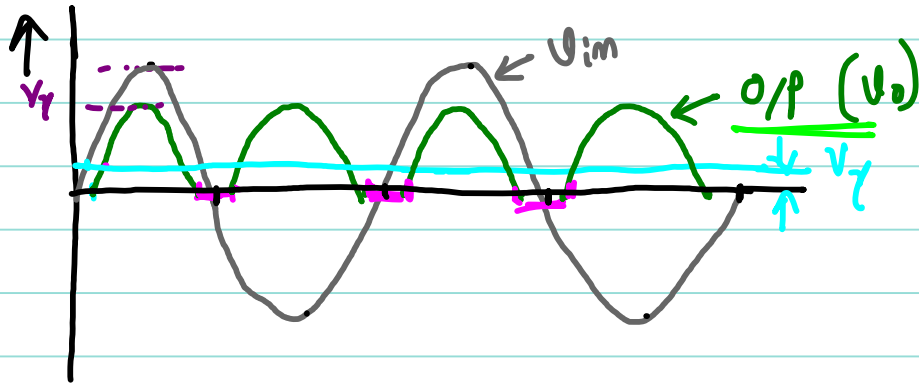
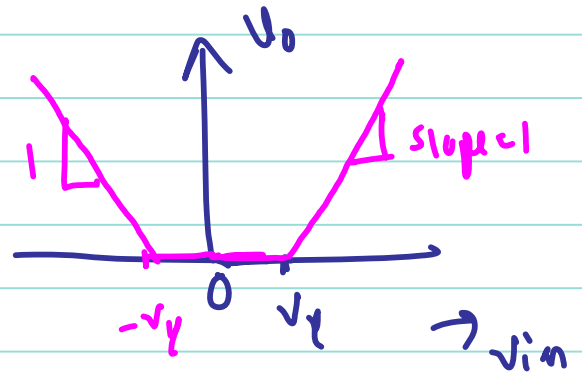
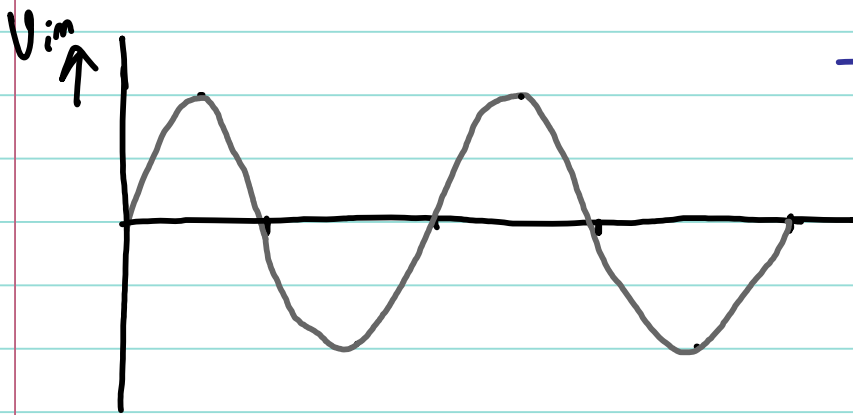
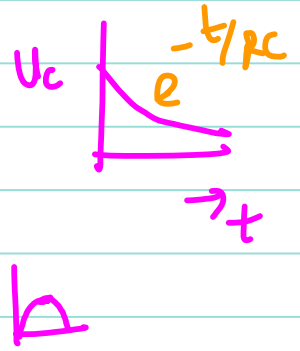
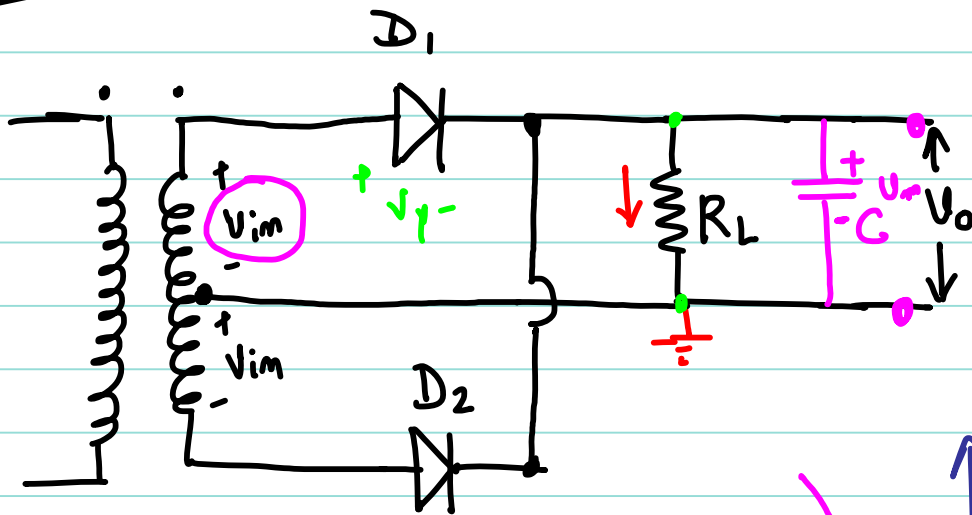
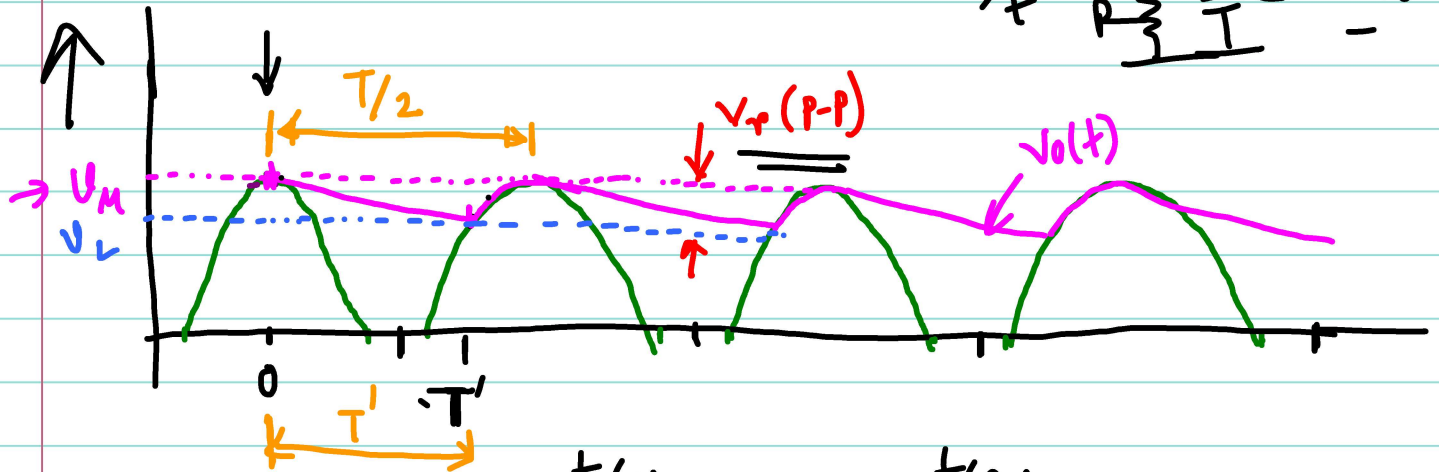
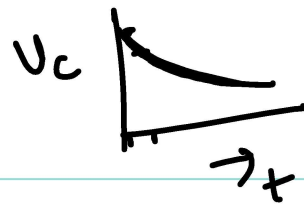


Lec-8





$$v_o(t) = V_m e^{-t/\tau} = V_m e^{-t/RC}$$

$$V_L = V_m e^{-T'/RC}$$

$$T' \ll RC$$

$$V_{r(P-P)} = V_m - V_L = V_m - V_m e^{-T'/RC}$$

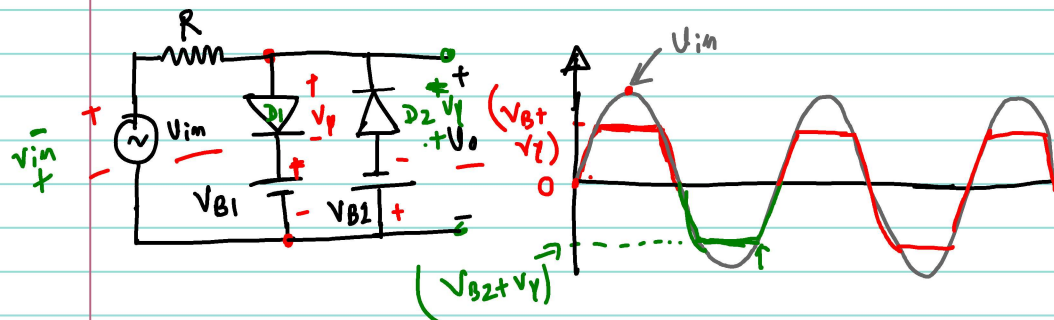
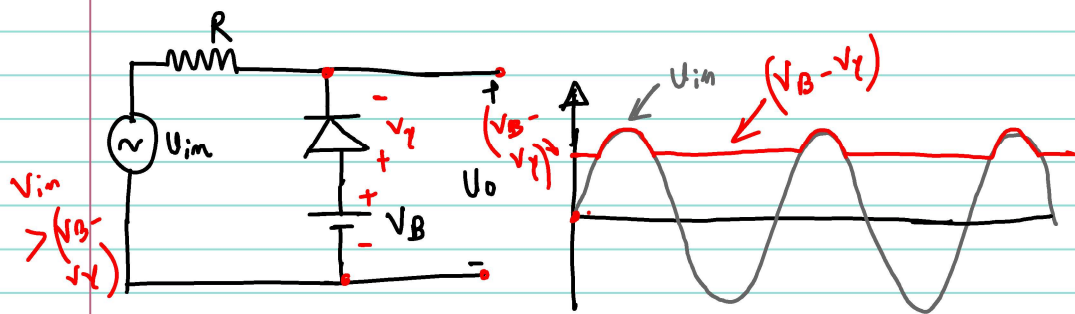
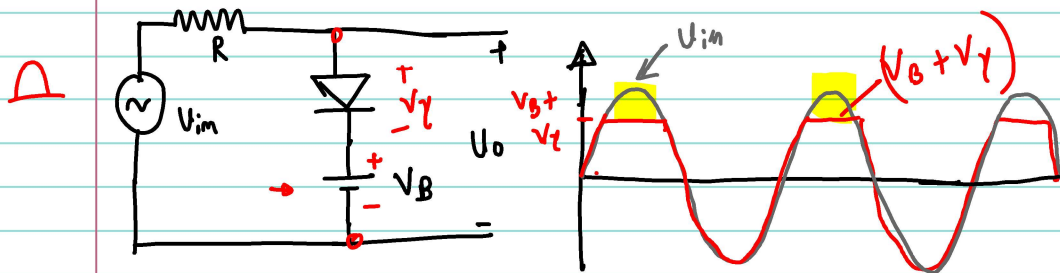
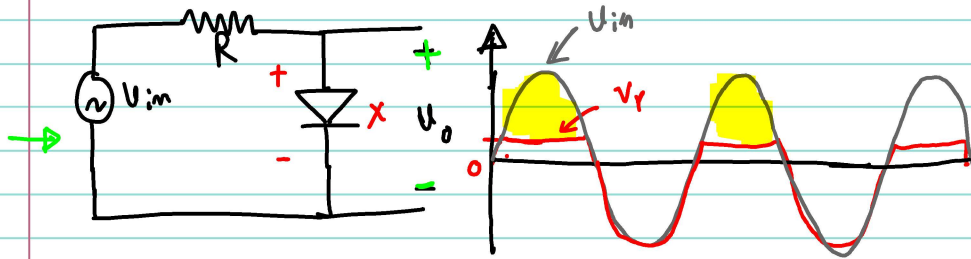
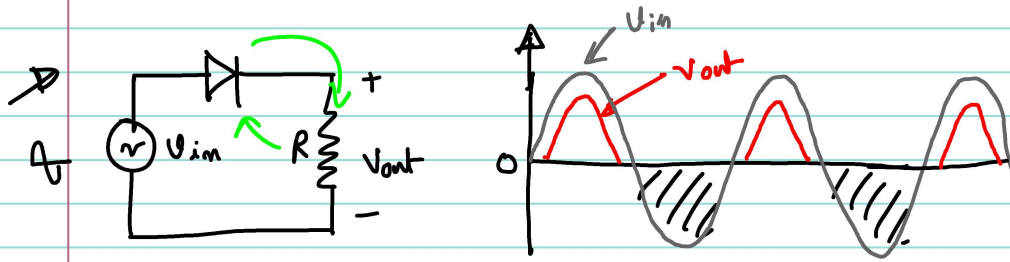
$$= V_m - V_m \left[1 - \frac{T'}{RC} \right]$$

$$= V_m \left(\frac{T'}{RC} \right)$$

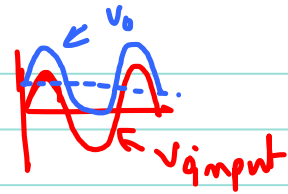
$$\text{if, } T' = \frac{T}{2}, \quad V_{r(P-P)} = V_m \cdot \frac{T}{2RC}$$

$$V_{r(P-P)} = \frac{V_m}{2RCf}$$

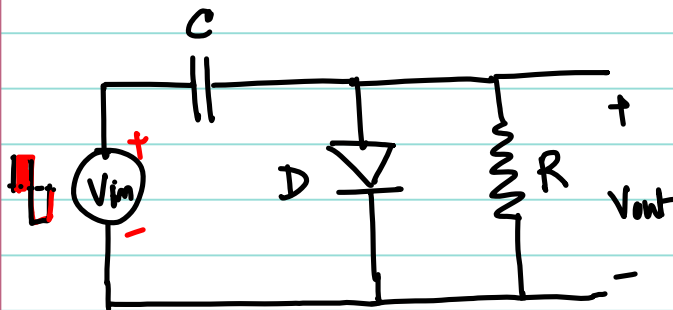
Clipper Circuits: / Limiter ckt



Clamper Circuits:

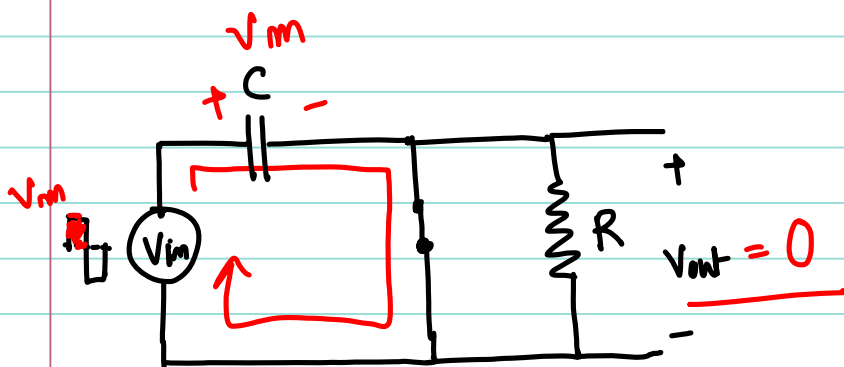


①

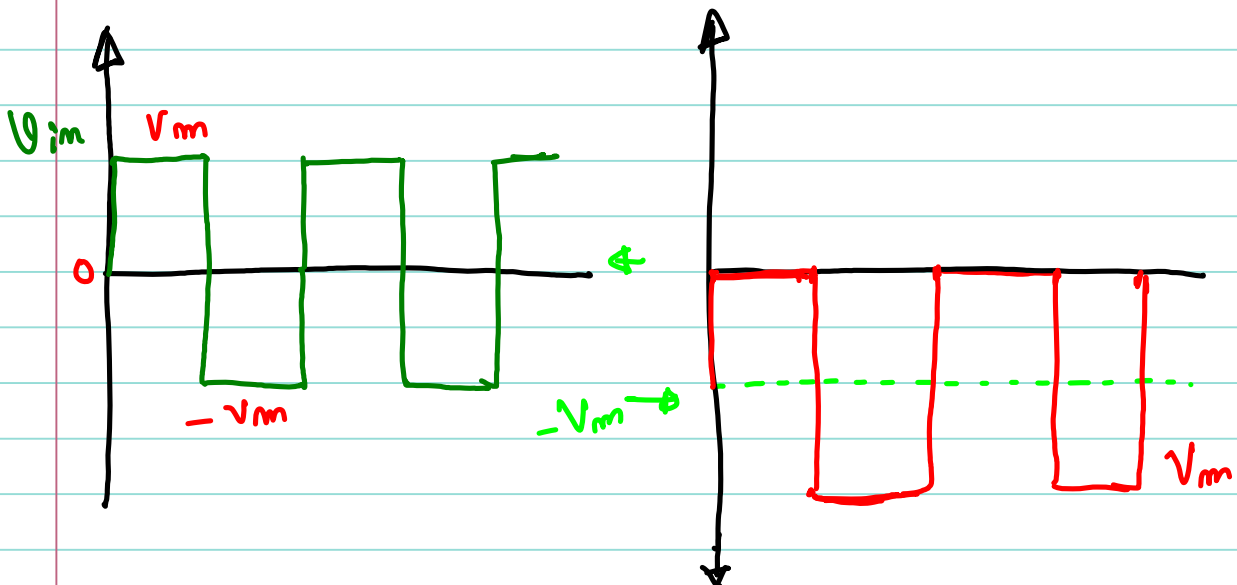
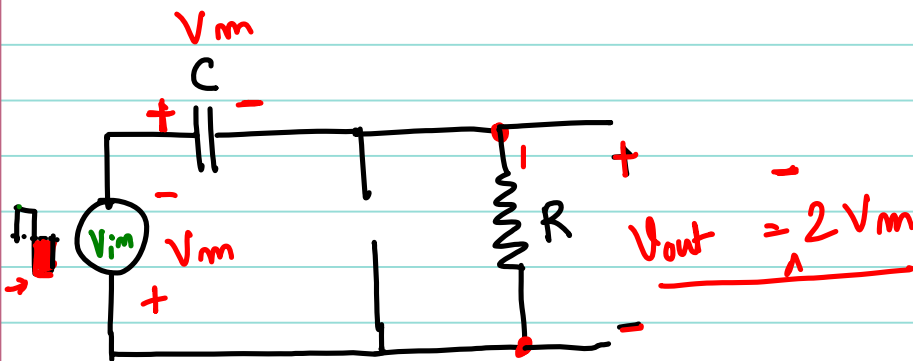


$V_f = 0 \text{ V}$
 $r_f = 0 \Omega$

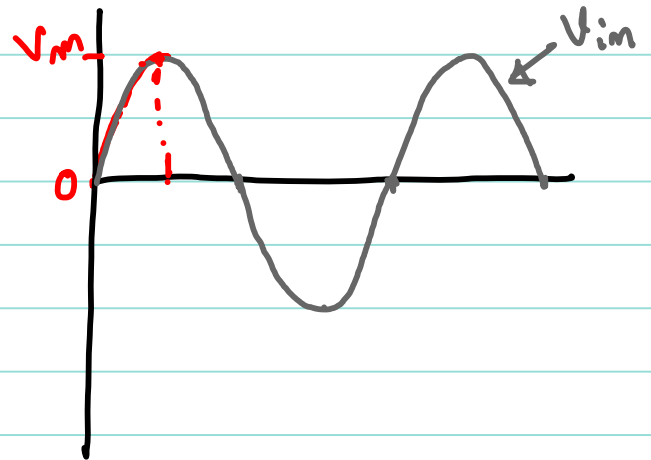
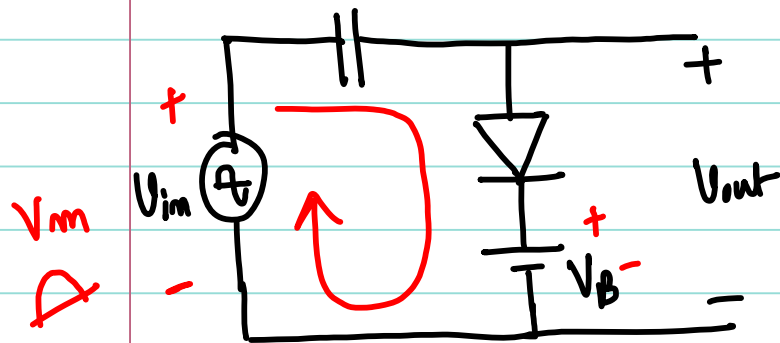
} Assuming.



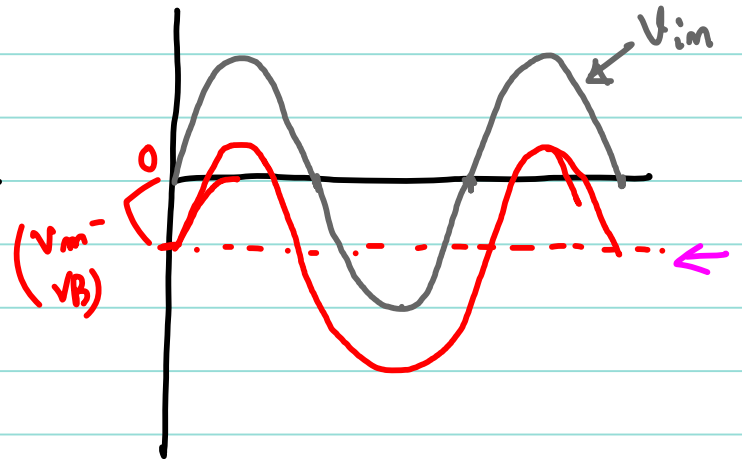
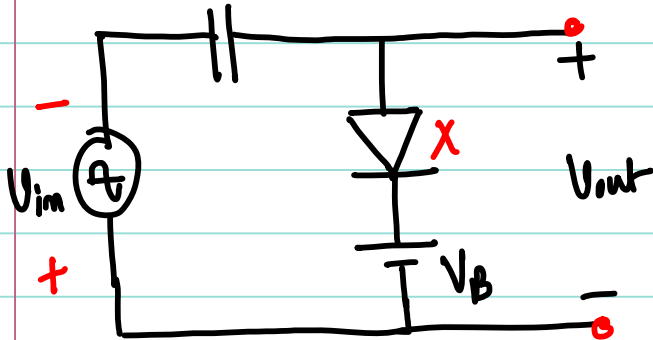
RC is very high



$$+(V_m - V_B)$$



$$+(V_m - V_B)$$



$$V_{out} = \underline{V_{in}} + (V_m - V_B)$$

in (-) cycle

$$\rightarrow V_{out} = V_{in} - (V_m - V_B)$$

$\rightarrow (+)$ "