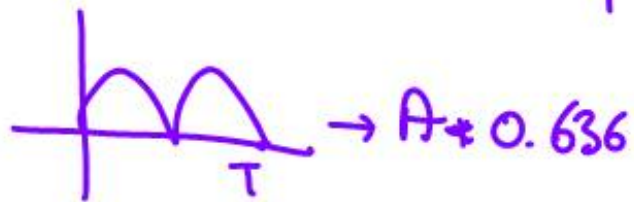


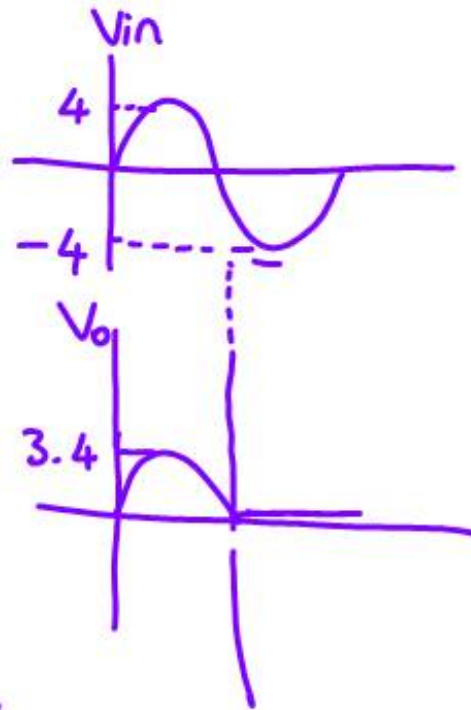
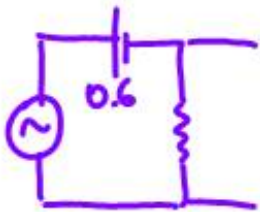
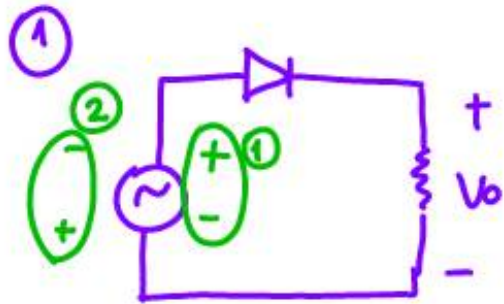
$$\rightarrow \text{Mean} = \frac{1}{T} \int_0^{T/2} V_o(t) dt$$

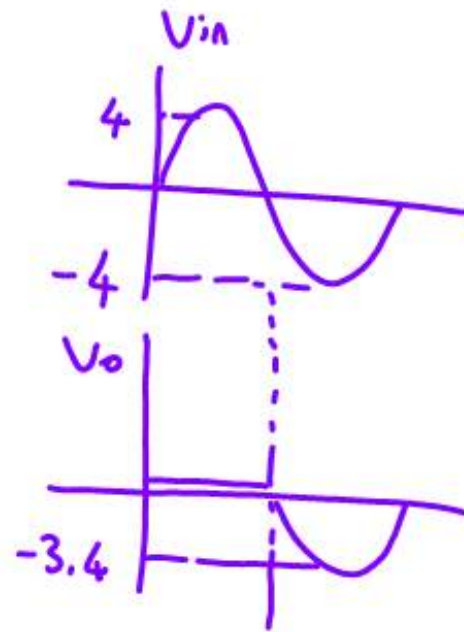
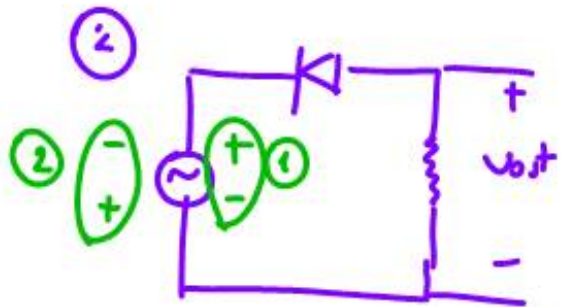
$$= \frac{1}{T} \int_0^{T/2} A \sin(2\pi ft) dt = \frac{-A}{T} \frac{\cos(2\pi ft)}{2\pi f} \Big|_0^{T/2} = \frac{-A}{2\pi} (-2) = A * 0.318$$

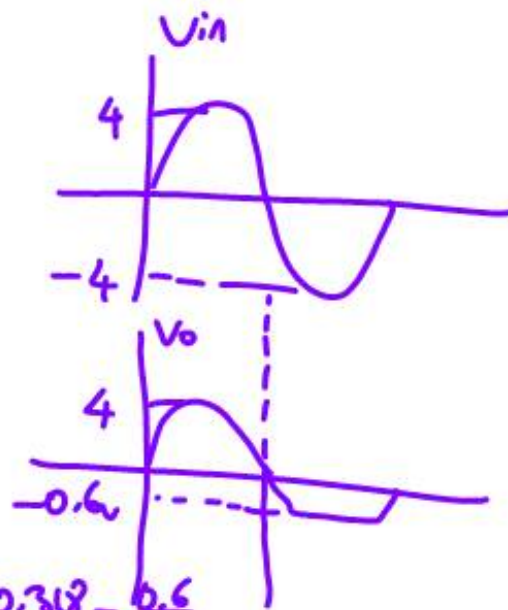
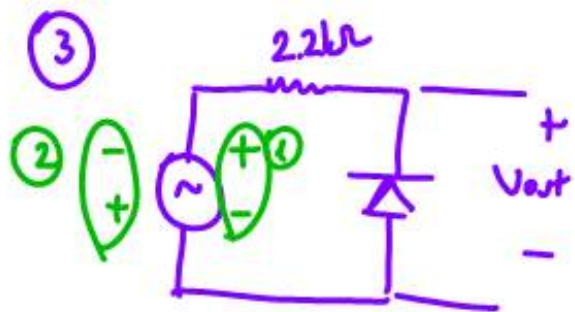


$$\rightarrow A * 0.636$$

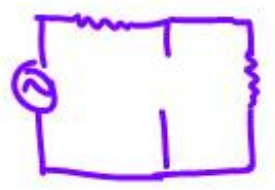
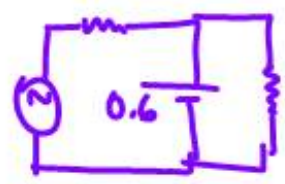
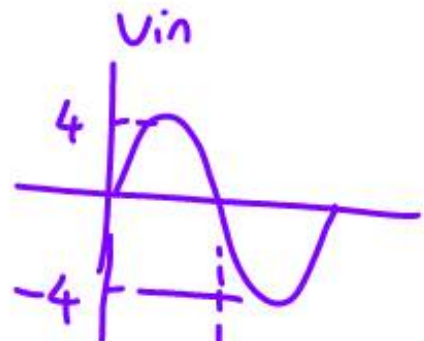
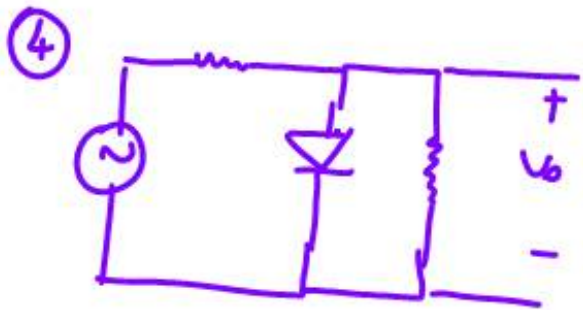
$V_{in} =$   
8V p-p  
1000Hz  
Sine wave



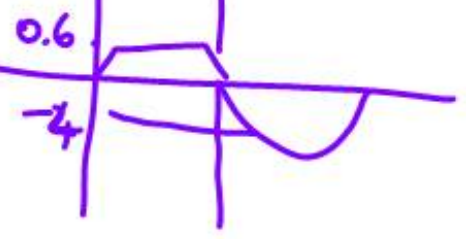




$$M_{en} = 4 \times 0.318 - \frac{0.6}{2}$$



$$\frac{0.6}{2} - 2 \approx 0.318$$



5

