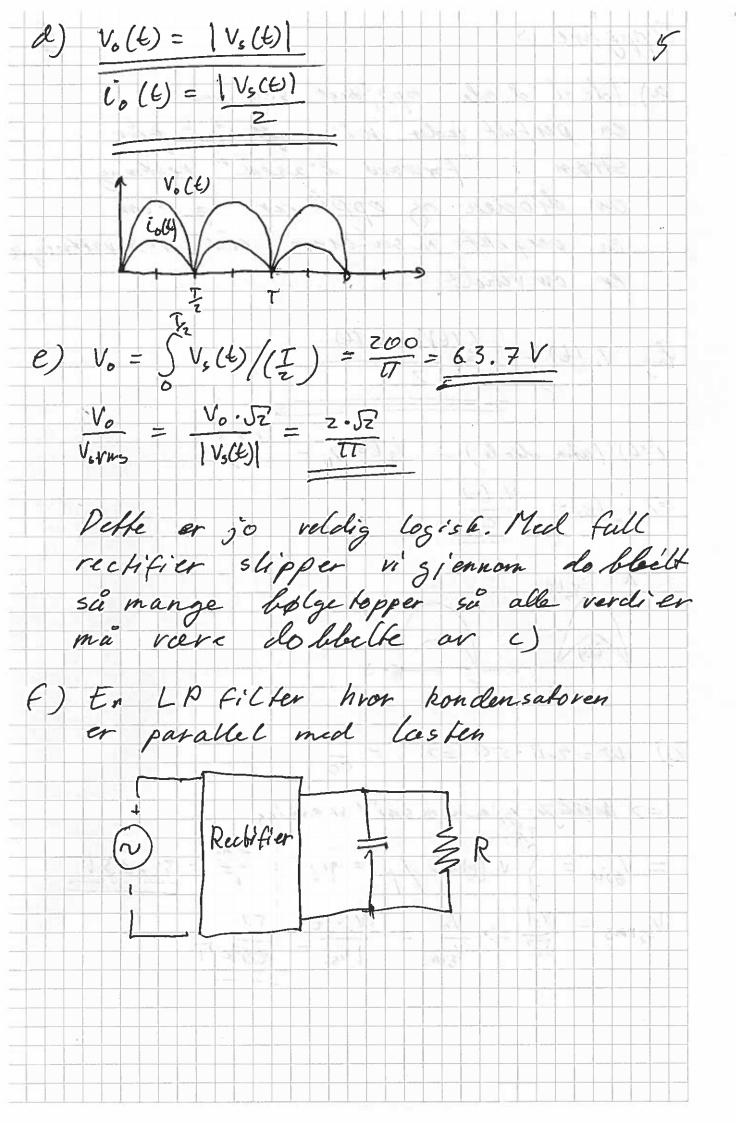


Oppgare 3 a) Ideal diode oppfører seg som en perfekt leder når allet går strom i "forward liased" rebtwing en perfekt in salator når strømvettninger er omvendt les V. (t) = [1/s(E)] + Vs(E) ((6) (user diode) = Vo (6)/R = Vo(6) => 10(6) = Vo(6) Vale) c) W = 7-17.50 => T = 4 => Average giennom snift spenning. = $V_{sien} = \int_{0}^{2} V_{s}(t) dt / T = \frac{7}{11} / T = \frac{700}{11} = \frac{34.83 V}{11}$ V_{s,rms} = $\frac{|V_s|}{\sqrt{z^2}} = \frac{V_o}{V_{s,rms}} = \frac{V_o \cdot \sqrt{z}}{|V_s|} = \frac{\sqrt{z^2}}{|V_s|}$



Oppgare D a) Vo= 5V =7 Vi= 5V = 5.556V $\frac{V_s}{N_i} = \frac{V_i}{N_2} = \frac{M_i}{N_2} = \frac{V_s}{V_i} = \frac{43.29}{V_i}$ $\begin{cases} V_{1} = \frac{4.5}{0.9} = 5V \\ V_{1} = V_{1} \cdot \frac{M_{1}}{N_{2}} = 216.45V \end{cases}$ $i_s = \frac{V_s - V_i}{R} = 0.02555A$ $=7 c_i = c_s \cdot \frac{M}{N_2} = 1.01944$ (° = (° = 1.13A c) R = R. Is = 0.5546025 P_ = I. Vo = 5.085 PR - 100 = 10.9%