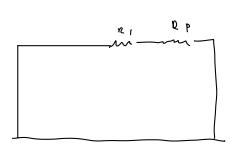
$$R_p = \frac{1}{1/\rho_{2}} = \frac{1}{1/\rho_{40}} + \frac{1}{1/\rho_{120}} = 30 \Omega$$



Rp getting
$$6V$$
 $V_2 = V_3 = 6V$

$$V_2 = V_3 = 6$$

a)

Ci and Li ave in parallel, R are in series

by similarly token, (2 are in series, D2 and L2 are in parallel

$$V_{C} = \frac{2c}{2c+2R} \text{ Vin}$$

$$= -\frac{i/wc}{R-i/wc} \text{ Vin}$$

$$= \frac{1}{iwz+1} \text{ Vin}$$

$$|V_{Vin}| = |\int_{1+(w_{C})^{2}} = |f_{2}|$$

$$= |\int_{1+w^{2}(10^{-4}s)^{2}} = |f_{2}|$$

$$W = 10000 s^{-1}$$

$$T = R \cdot C = 10000 \Omega \cdot 0.01 \times 10^{-6} F$$

$$= 10^{-4} S$$

no pass because power drop by 1/2