Assignment.

Q1.
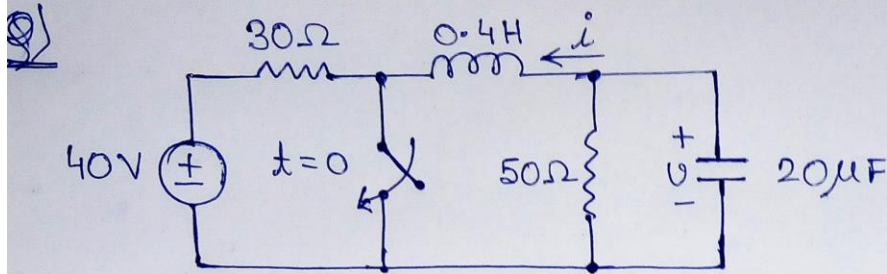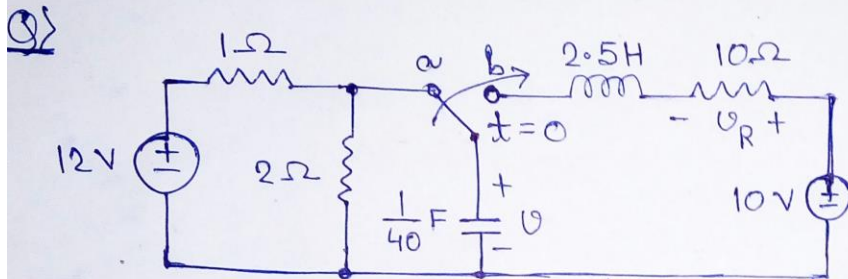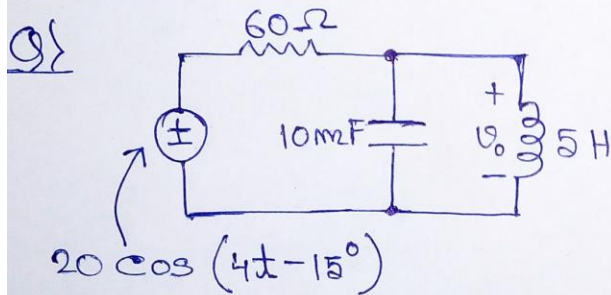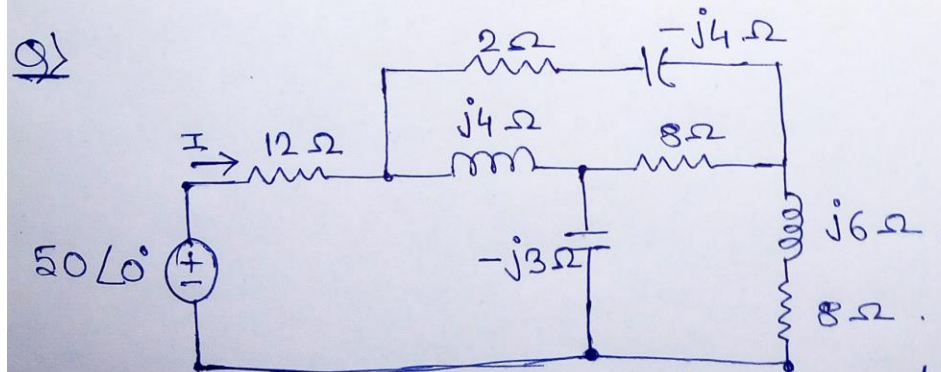

Find $v(t)$ for $t > 0$ in the RLC circuit shown above. [SPICE + manually]

Q2.

Having been in position 'a' for a long time the switch in Fig. it is moved to position 'b' at $t = 0$. Find $v(t)$ and $v_R(t)$ for $t > 0$.
[SPICE + manually]

Q3.

Determine $v_o(t)$ in the circuit.
[SPICE + manually]

$20 \cos (4t - 15°)$

Q4.

$50\angle0°$

Find current I in the circuit [SPICE + manually]

Q5. A capacitance bridge balances when $R = 100 \Omega$