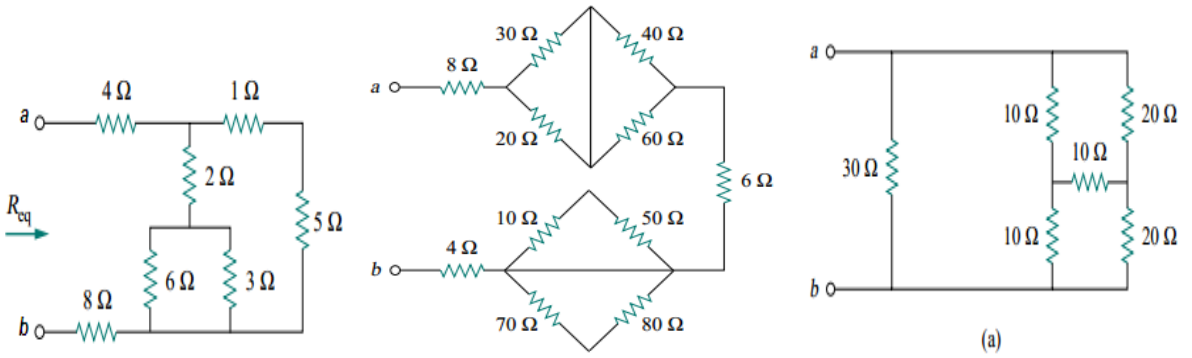
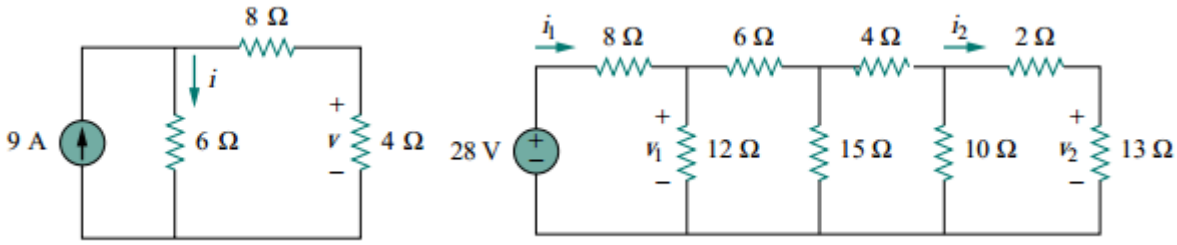
Q1) Obtain the equivalent resistance at the terminals a-b for each of the circuits

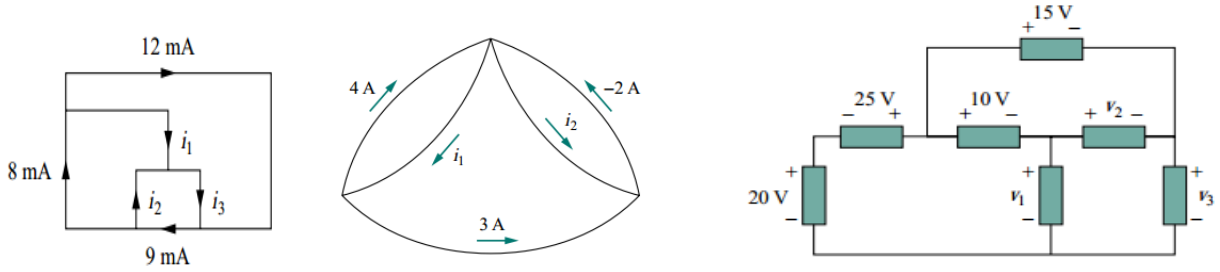


Q2) a) Find i, v and the power dissipated in the 6Ω resistor

b) Determine i_1,i_2,v_1, and v_2 in the ladder network , Calculate the power dissipated in the 2Ω resistor.



Q3) Use **KCL** to obtain currents i_1, i2 and i_3 and Use **KVL** to obtain voltages v_1, v2, v3 and v_4 in the circuits



Q4) a) Find v_1, v_2 and v_3 in the circuits shown below

b) Find I and V_{ab} in the circuit