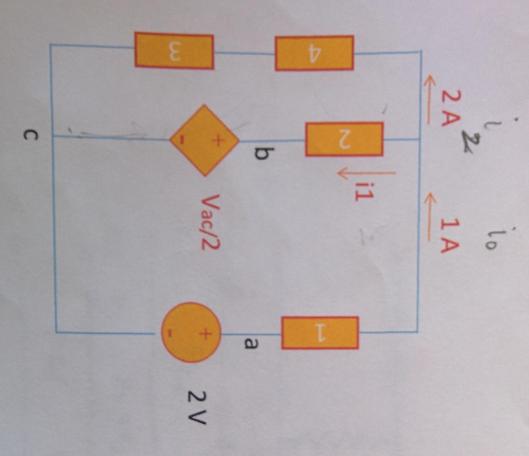
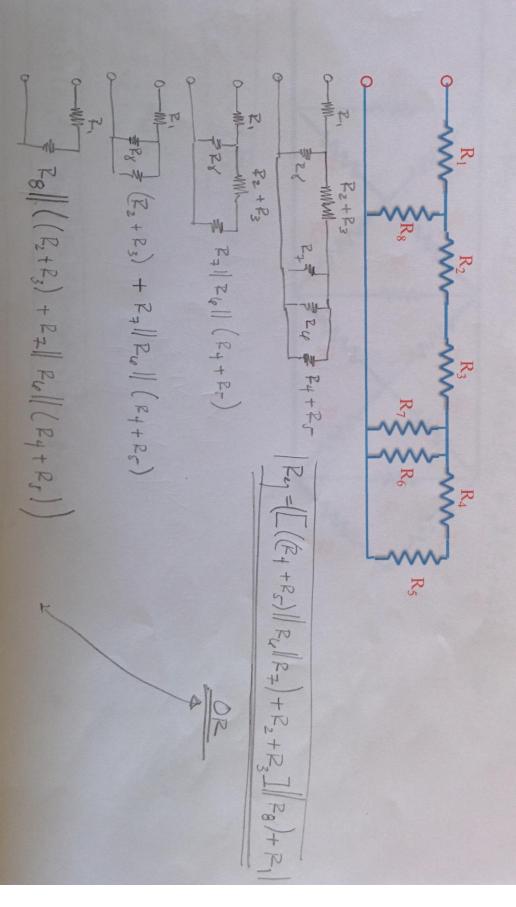


Problem 3: (VCVS) Find Vbc, i1.

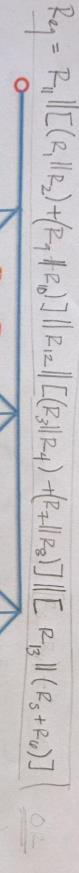


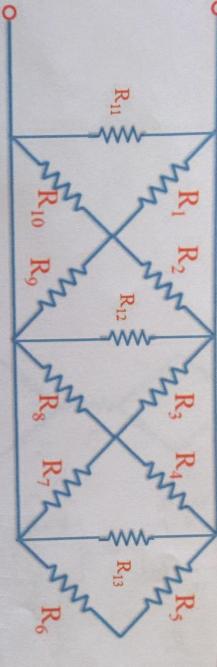
Problem 4: Solve for Req. You may use the parallel notation discussed in class

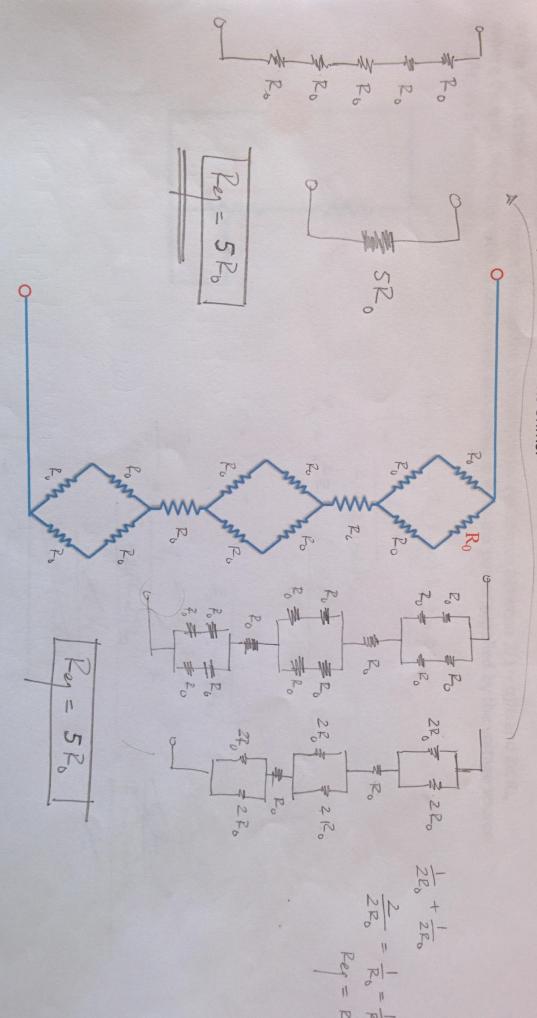


Pen = R, + ( Pr 11 [ R2+R3 + (R4 11 R6 11 (R++R5))])

Problem 5: Solve for Req. You may use the parallel notation discussed in class.

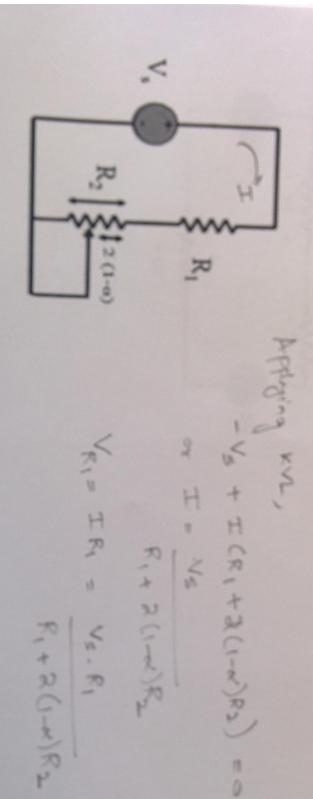






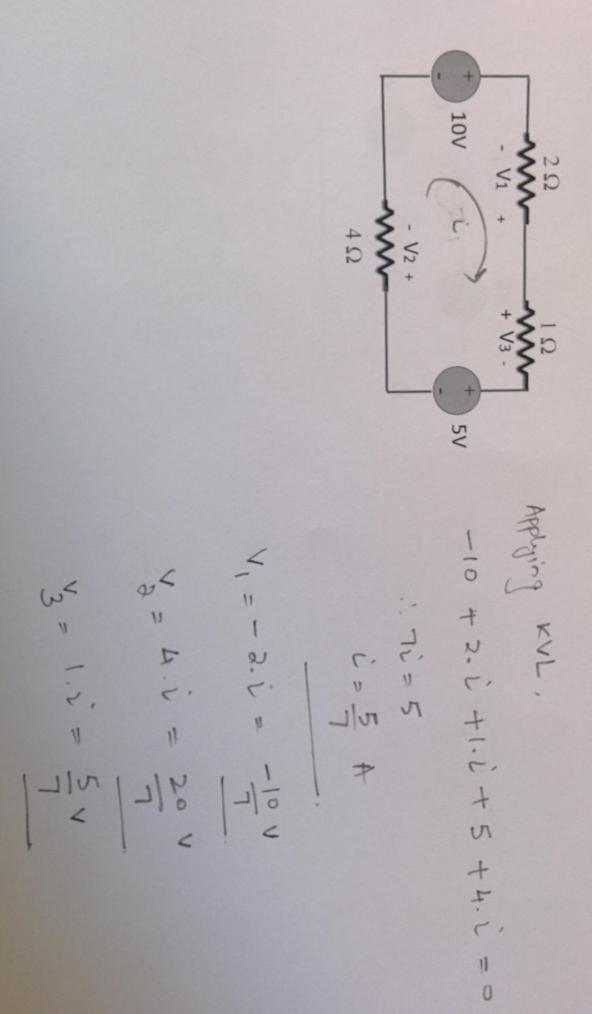
Problem 7: Potentiometer.

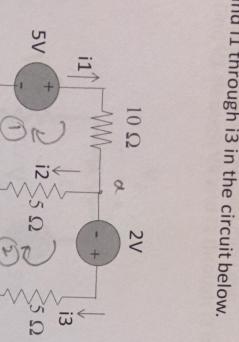
where 0< α<1. Find the ratio of the power dissipated in R<sub>1</sub> to the power supplied by the voltage source In the circuit below, the wiper divides the potentiometer resistance between  $2(1-\alpha)R_2$  and  $2\alpha R_3$ ,



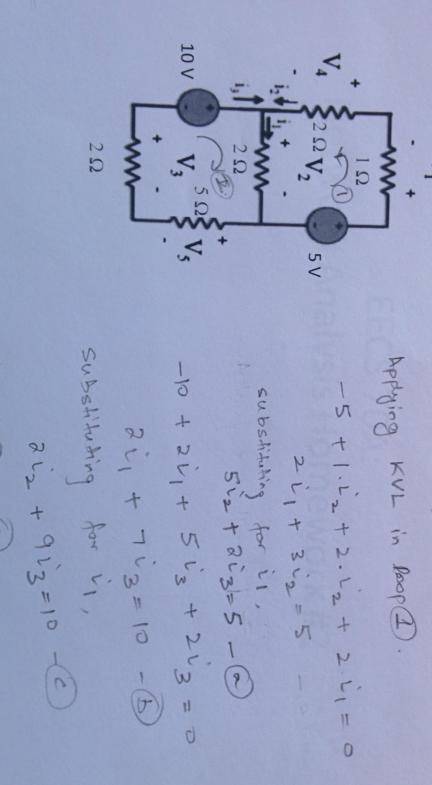
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Problem 8: KVL & Ohm law. Find V1, V2 and V3 and the current flowing in the circuit below





Problem 10: KVL, KCL & Ohm Law. Find V1 through V4 and i1 through i3 in the circuit below.



V= 1. 12 = 0.609 V V= 2. L1 = 3.168 V V= 2. L2 = -1.95 V

11=12+13 V5 = 5. 13 = 4.875 V

solving @ on co

12=0.609 => i,=1.584