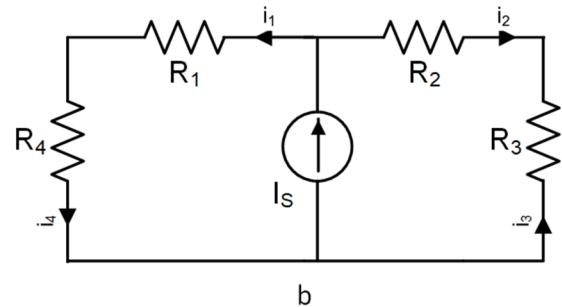
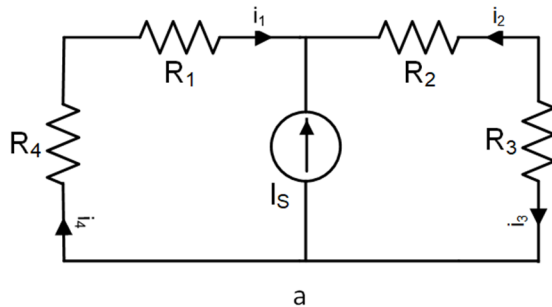


Rules:

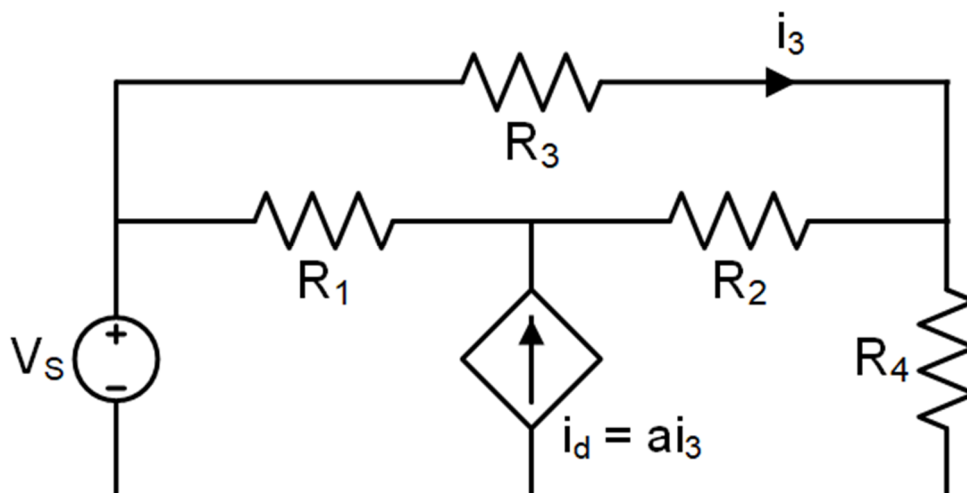
- 1) Your homework should be hand-written.
- 2) Don't include a cover page. Use both sides of the paper.
- 3) Have at least 1,5 cm margin from the edges.
- 4) The grades of identical or very similar looking homeworks will be divided to the number of such homeworks.
- 5) Your homeworks will be collected in the class on Wednesdays before the first lecture, till 12:30. If you bring your homework between 12:31 – 13:30 your grade will be multiplied with 0,7. After 13:30 no homework will be accepted.
- 6) You must sign on a sheet of paper as proof of handing in.

If you want to hand in your homework before Wednesday, you must contact research assistant Görkem Yazgaç (Office: 8301).

1) Make node analysis for the circuits (a) and (b) given below. First obtain the equations, then write them in matrix form. Are the matrices different? (100 points)



2) For the circuit given below make modified (generalized) node analysis. At the end, write the equations in matrix form. (100 points)



Deadline of the 4th HW is **14 March 2018 12:30**.