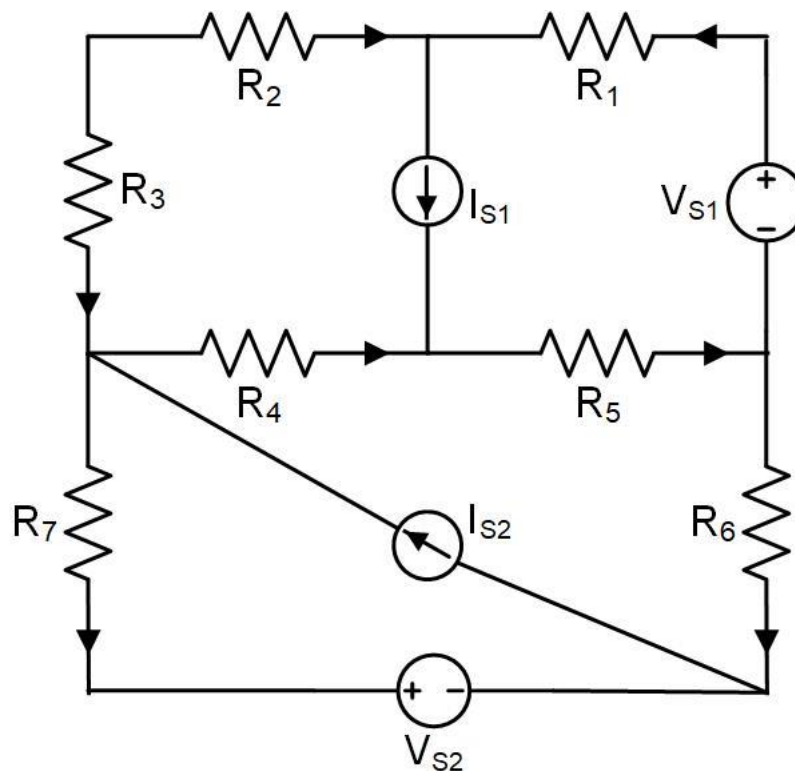


**Rules:**

- 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) Apply twig voltage method to the circuit given in the figure. Obtain the equations and write them in matrix form. (100 points)



- 2) Give information about memristors (i.e. its history, realization and applications. Your answer should have at least 150 words. A figure is considered as 10 words. Write your reference(s)) (50 points)

Deadline of the 3rd HW is **7 March 2018 12:30**.