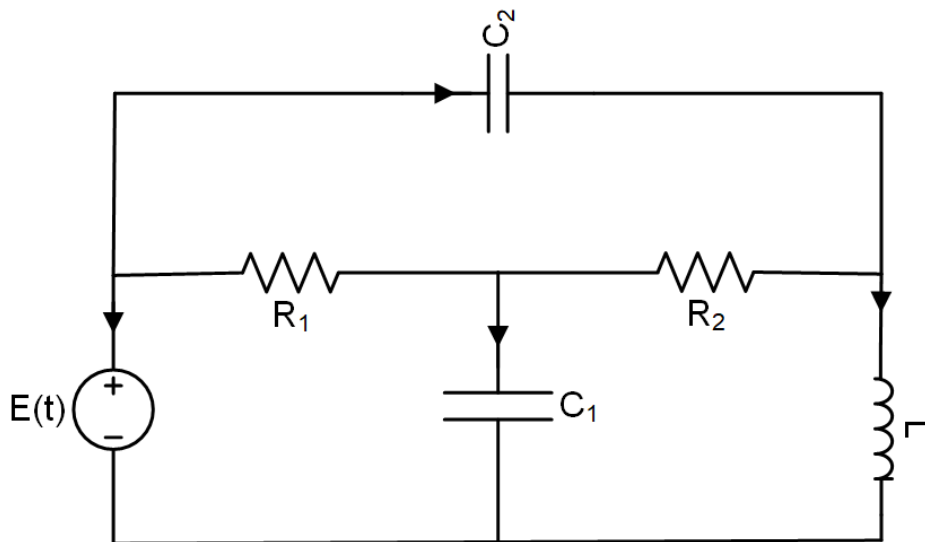


**Rules:**

- 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-a)** Find the state equations of the circuit given below and write them in matrix form. (100 points)



Deadline of the 8th HW is 16 May 2018 12:30.