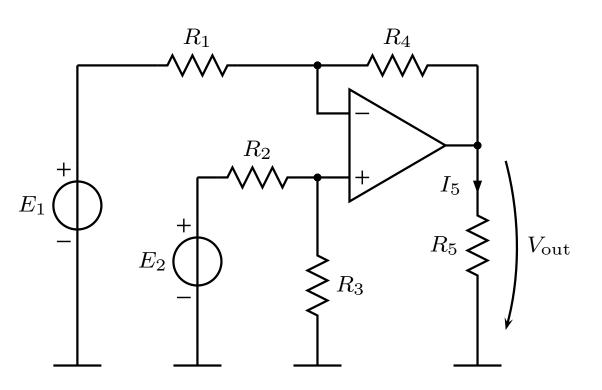
In-class exercise

Deadline: 18:00 today

Submission:

https://mycourses.aalto.fi/course/view.php?id=33521§ion=2



In this exercise, we analyze difference amplifier circuits based on ideal operational amplifiers and see if the amplifier operates at linear or saturation regions.

Find current I_5 in the circuit with the following settings. Is the operational amplifier works in its linear or saturation region?

$$R_1 = 2 k\Omega, R_2 = 1 k\Omega, R_3 = 5 k\Omega,$$

 $R_4 = 20 k\Omega, R_5 = 10 k\Omega, E_1 = 3 V,$
 $E_2 = 6 V, V_{CC} = 12 V.$