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1 Simulation Analysis

For the first part, as mentioned in the theoretical analysis, because the system has stabilized, we expect that for a long period of time no current will pass through the capacitor. The values obtained for this are presented in 1.

$$\begin{bmatrix} V1 \\ V2 \\ V3 \\ V4 \\ V5 \\ V6 \\ V7 \\ V8 \end{bmatrix} = \begin{bmatrix} 5.038475 \\ 4.758224 \\ 4.170535 \\ -0.000000 \\ 4.798515 \\ 5.646841 \\ -1.834523 \\ -2.756787 \end{bmatrix} V \quad (1)$$