

## 1 1. Circuit

### 1.1 Instructions

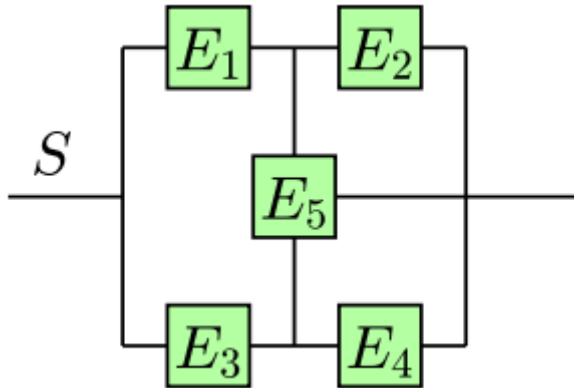


Figure 1: Components  $E_1, \dots, E_4$  at operational at time  $t$  with probabilities  $e^t, e^{2t}, e^{t/2}, e^{t/3}$  and  $e^t$ , respectively. The system  $S$  consists of five independent elements  $E_i, i = 1, \dots, E_5$ , connected as in Figure 1. Probability that the element  $E_i$  is operational at the end of time interval  $[0, t]$  is given as