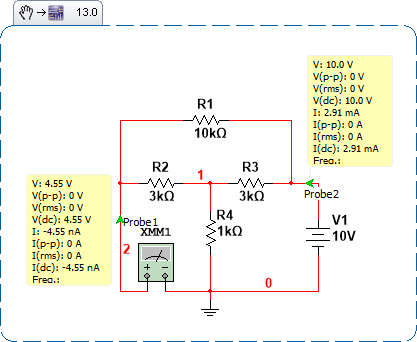
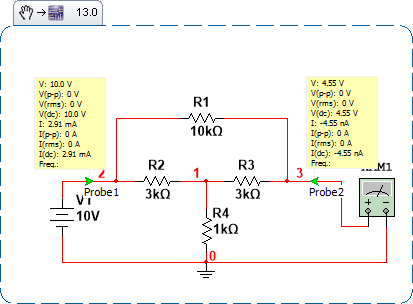
**TWO PORT NETWORK**

Table 1: Z parameter of circuit 1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Z - parameters | Z11 | Z12 | Z21 | Z22 |
| Simulation | 3.4364k | 1.5618k | 1.5618k | 3.4364k |
| Calculation | 3.4375k | 1.5625k | 1.5625k | 3.4375k |



1. Condition for reciprocal,

Thus, the above circuit is reciprocal

1. Condition for symmetric,

Thus, the above circuit is symmetric