## Quiz 0-1

What is the value of combined resistance?

$$
\underbrace{\boldsymbol{R}_{2}}_{R_{1}=1 \mathrm{k} \Omega, R_{2}=2 \mathrm{k} \Omega}=\underbrace{\boldsymbol{R}_{\mathbf{2}}}_{R_{\mathrm{c}}=? \Omega}
$$

## Quiz 0-2

What is the value of combined resistance?


$$
R_{1}=4 \mathrm{k} \Omega, R_{2}=2 \mathrm{k} \Omega
$$


$R_{\mathrm{C}}=$ ? $\Omega$

## Quiz 1-1

How many nodes are there in the circuit?


## Quiz 1-2

How large is the voltage $U_{2}$ ?


## Quiz 1-3

How much is current $I_{1}$ ?


## Quiz 1-4

How large is current $I_{\mathrm{E}}$ ?


## Quiz 2-1

How large is current $I_{1}$ ?


## Quiz 2-2

How much power [ mW ] is consumed at source $E$ ?


## Quiz 2-3

How much power [ mW ] is consumed at resistance $R_{2}$ ?


## Answers

- 0-1: 3 kOhm
- 0-2: 4/3 kOhm
- 1-1: two nodes
- 1-2: 2 V
- 1-3: 2 mA
- 1-4: 1 mA
- 2-1: 3 mA
- 2-2: 12 mW
- 2-3: 1 mW

