# Quiz 0-1

What is the value of combined resistance?

$$R_1 = 1 \text{ k}\Omega, R_2 = 2 \text{ k}\Omega$$

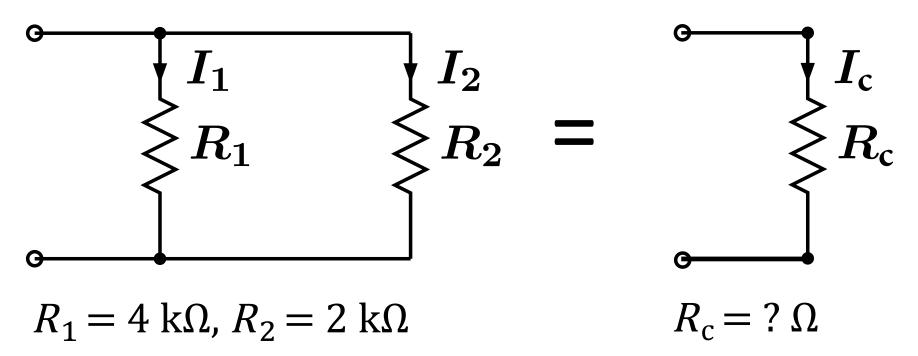
$$R_1 = 2 \text{ k}\Omega$$

$$R_2 = 2 \text{ k}\Omega$$

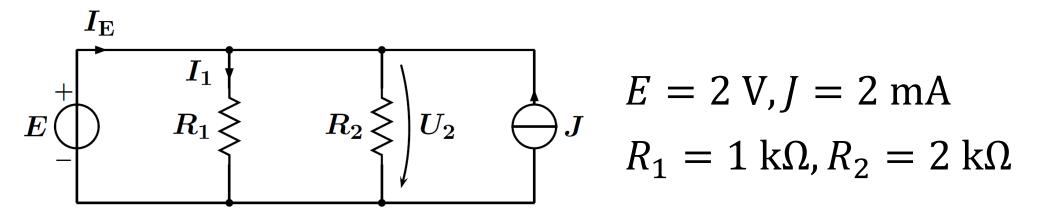
$$R_3 = 2 \text{ k}\Omega$$

# Quiz 0-2

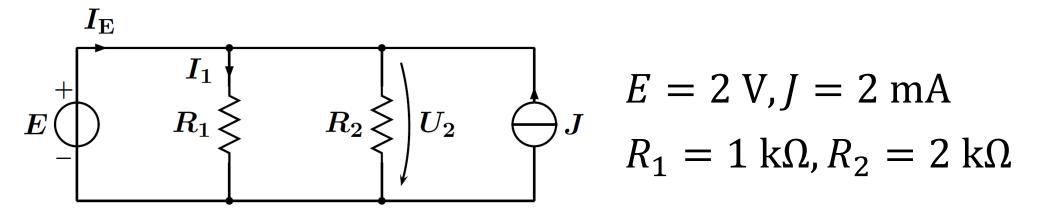
What is the value of combined resistance?



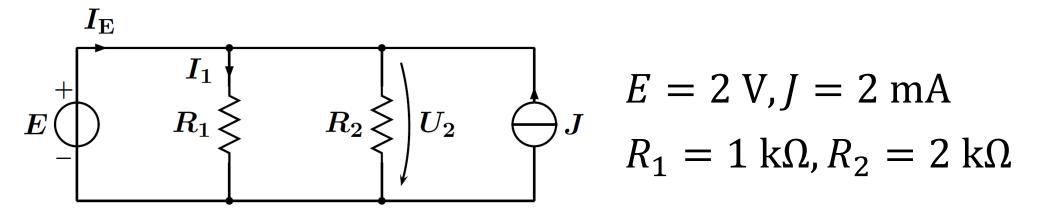
How many nodes are there in the circuit?



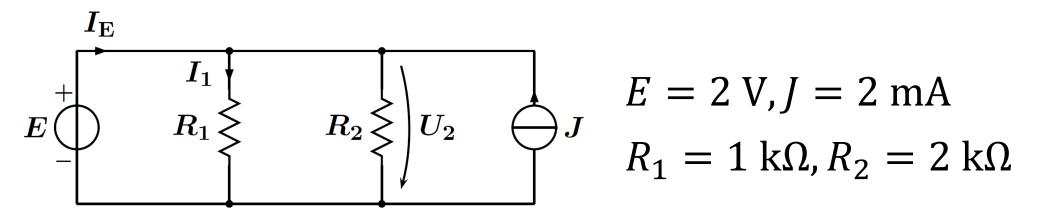
How large is the voltage  $U_2$ ?



How much is current  $I_1$ ?

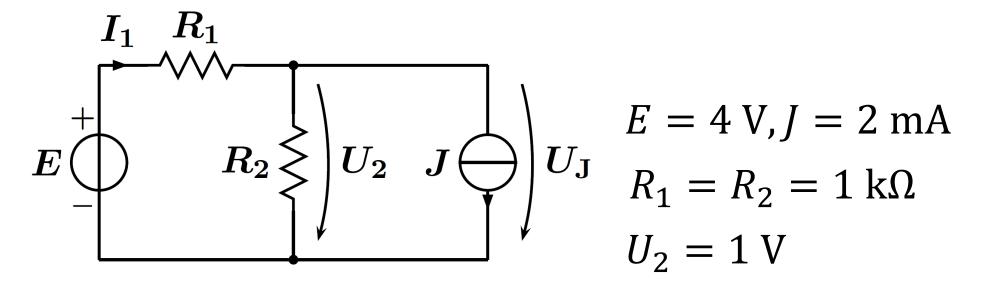


How large is current  $I_{\rm E}$ ?



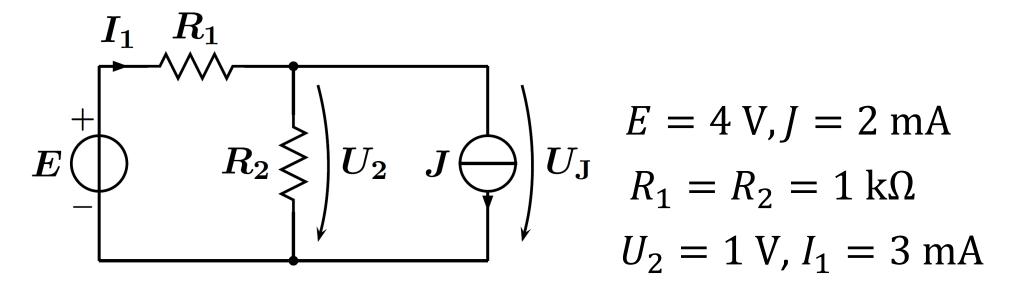
# Quiz 2-1

How large is current  $I_1$ ?



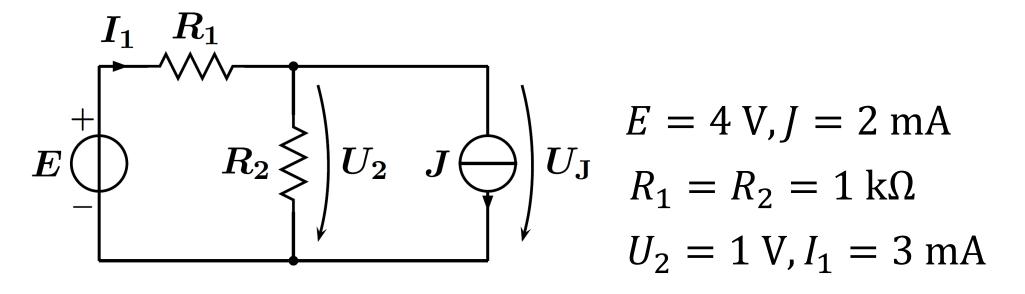
## Quiz 2-2

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