

Exercise 1-1

Chapter 1

Solutions to Exercises within the Chapter

Ex: 1.1 When output terminals are open-circuited, as in Fig. 1.1a:

For circuit a, $v_{oc} = v_1(t)$

For circuit b, $v_{oc} = 1.00 \times R_2$

When output terminals are short-circuited, as in Fig. 1.1b:

For circuit a, $i_{sc} = \frac{v_1(t)}{R_1}$

For circuit b, $i_{sc} = I_1(t)$

For equivalency:

$$R_1 I_1(t) = v_1(t)$$



Figure 1.1a

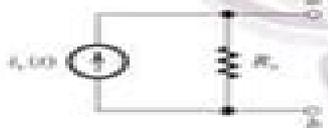
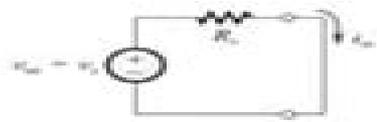


Figure 1.1b

Ex: 1.2



$$v_{oc} = 10 \text{ mV}$$

$$i_{oc} = 10 \text{ }\mu\text{A}$$

$$R_1 = \frac{v_{oc}}{i_{oc}} = \frac{10 \text{ mV}}{10 \text{ }\mu\text{A}} = 1 \text{ k}\Omega$$

Ex: 1.3 Using voltage divider:

$$v_2(t) = v_1(t) \times \frac{R_2}{R_1 + R_2}$$



Given $v_1(t) = 10 \text{ mV}$ and $R_1 = 1 \text{ k}\Omega$.

If $R_2 = 100 \text{ k}\Omega$

$$v_2 = 10 \text{ mV} \times \frac{100}{100 + 1} = 9.9 \text{ mV}$$

If $R_2 = 10 \text{ k}\Omega$

$$v_2 = 10 \text{ mV} \times \frac{10}{10 + 1} = 9.1 \text{ mV}$$

If $R_2 = 1 \text{ k}\Omega$

$$v_2 = 10 \text{ mV} \times \frac{1}{1 + 1} = 5 \text{ mV}$$

If $R_2 = 100 \text{ }\Omega$

$$v_2 = 10 \text{ mV} \times \frac{100}{100 + 1 \text{ K}} = 0.91 \text{ mV}$$

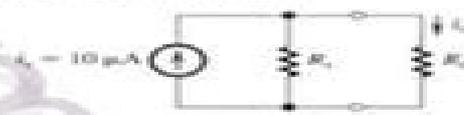
For $v_2 = 0.5v_1$,

$$\frac{R_2}{R_1 + R_2} = 0.5$$

Since $R_1 = 1 \text{ k}\Omega$,

$$R_2 = 1 \text{ k}\Omega$$

Ex: 1.4 Using current divider:



$$I_2 = I_1 \times \frac{R_1}{R_1 + R_2}$$

Given $I_1 = 10 \text{ }\mu\text{A}$, $R_1 = 100 \text{ k}\Omega$.

For

$$R_2 = 1 \text{ k}\Omega, I_2 = 10 \text{ }\mu\text{A} \times \frac{100}{100 + 1} = 9.9 \text{ }\mu\text{A}$$

For

$$R_2 = 10 \text{ k}\Omega, I_2 = 10 \text{ }\mu\text{A} \times \frac{100}{100 + 10} = 9.1 \text{ }\mu\text{A}$$

For

$$R_2 = 100 \text{ k}\Omega, I_2 = 10 \text{ }\mu\text{A} \times \frac{100}{100 + 100} = 5 \text{ }\mu\text{A}$$

$$\text{For } R_2 = 1 \text{ M}\Omega, I_2 = 10 \text{ }\mu\text{A} \times \frac{100 \text{ K}}{100 \text{ K} + 1 \text{ M}} = 0.9 \text{ }\mu\text{A}$$

$$\text{For } I_2 = 0.5I_1, \frac{100}{100 + R_2} = 0.5$$

$$\Rightarrow R_2 = 25 \text{ k}\Omega$$

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