

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, $v_{oc} = v_s(t)$
 For circuit b, $v_{oc} = 1.00 \times R_2$

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

For circuit a, $i_{sc} = \frac{v_s(t)}{R_1}$
 For circuit b, $i_{sc} = I_s(t)$
 For equivalency
 $R_1 I_s(t) = v_s(t)$



Figure 1.1a



Figure 1.1b

Ex: 1.2



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

Ex: 1.3 Using voltage divider:

$v_o(t) = v_s(t) \times \frac{R_2}{R_1 + R_2}$



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

If $R_2 = 100 \text{ k}\Omega$
 $v_o = 10 \text{ mV} \times \frac{100}{100 + 1} = 9.9 \text{ mV}$

If $R_2 = 10 \text{ k}\Omega$
 $v_o = 10 \text{ mV} \times \frac{10}{10 + 1} = 9.1 \text{ mV}$

If $R_2 = 1 \text{ k}\Omega$
 $v_o = 10 \text{ mV} \times \frac{1}{1 + 1} = 5 \text{ mV}$

If $R_2 = 100 \Omega$
 $v_o = 10 \text{ mV} \times \frac{100}{100 + 1 \text{ K}} = 0.91 \text{ mV}$

For $v_o = 0.5v_s$,

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

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

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

Ex: 1.4 Using current divider:



$i_o = I_s \times \frac{R_1}{R_1 + R_2}$
 Given $I_s = 10 \mu\text{A}$, $R_1 = 100 \text{ k}\Omega$.

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

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

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

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

For $i_o = 0.5I_s$, $\frac{100}{100 + R_2} = 0.5$
 $\Rightarrow R_2 = 100 \text{ k}\Omega$

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