

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  
 $R_1 I_1(t) = v_2(t)$



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  $R_2 = 100 \text{ k}\Omega$ ,  $i_2 = 10 \text{ }\mu\text{A} \times \frac{100}{100 + 100} = 5 \text{ }\mu\text{A}$

For  $R_2 = 1 \text{ M}\Omega$ ,  $i_2 = 10 \text{ }\mu\text{A} \times \frac{100 \text{ K}}{100 \text{ K} + 1 \text{ M}}$   
 $= 0.9 \text{ }\mu\text{A}$

For  $i_2 = 0.5I_1$ ,  $\frac{100}{100 + R_2} = 0.5$

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

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