

**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,  $v_{oc} = i_s(t) \times R_1$

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  
 $R_1 i_s(t) = v_s(t)$

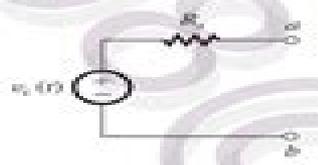


Figure 1.1a

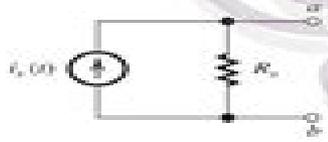
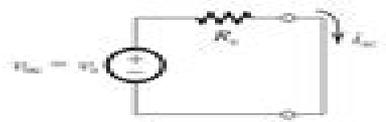


Figure 1.1b

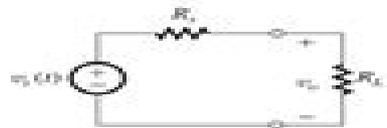
**Ex: 1.2**



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

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

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

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

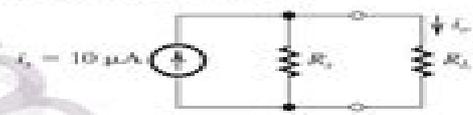
For  $v_o = 0.8 v_{oc}$

$\frac{R_2}{R_1 + R_2} = 0.8$

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

$R_2 = 4 \text{ k}\Omega$

**Ex: 1.4** Using current divider:



$i_o = i_s \times \frac{R_1}{R_1 + R_2}$

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

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

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

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

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

For  $i_o = 0.8 i_s$ ,  $\frac{100}{100 + R_2} = 0.8$   
 $\Rightarrow R_2 = 25 \text{ k}\Omega$

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