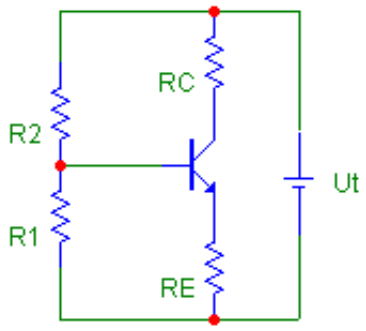

In[1]:=
$$U_t = 14.8$$
$$U_{BE} = 0.6$$
$$\beta = 59$$
$$R_1 = R_2 = 10\,000$$
$$R_E = 30$$
$$R_C = 100$$

$$U_{AB} = \frac{R_1}{R_1 + R_2} \times U_t$$

Out[7]= 7.4

In[8]:=
$$R_{AB} = \frac{R_1 \times R_2}{R_1 + R_2}$$

Out[8]= 5000

In[9]:=
$$I_B = \frac{U_{AB} - U_{BE}}{R_{AB} + \{1 + \beta\} \times R_E}$$

Out[9]= {0.001}

In[10]:=
$$I_C = \beta \times I_B$$

Out[10]= {0.059}

In[11]:=
$$I_E = \{1 + \beta\} \times I_B$$

Out[11]= {0.06}

In[12]:=
$$U_{CE} = U_t - U_C - U_E = U_t - \{I_C \times R_C\} - \{I_E \times R_E\}$$

Out[12]= {{7.1}}

In[13]:=
$$U_{BC} = U_{BE} - U_{CE}$$

Out[13]= {{-6.5}}

In[14]:=
$$U_{R2} = U_t - U_{R1} = U_t - \{U_{BE} + U_{RE}\} = U_t - \{U_{BE} + (I_E \times R_E)\}$$

Out[14]= {{12.4}}

In[16]:=
$$U_{R1} = U_{BE} + U_{RE} = U_{BE} + (I_E \times R_E)$$

Out[16]= {2.4}

In[17]:= $I_{R1} = \frac{U_{R1}}{R_1}$

Out[17]= {0.00024}

In[18]:= $I_{R2} = \frac{U_{R2}}{R_2}$

Out[18]= {{0.00124}}