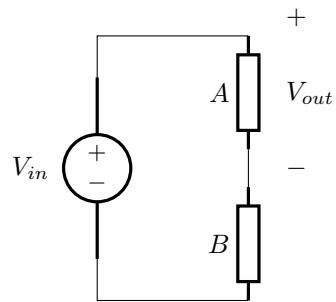
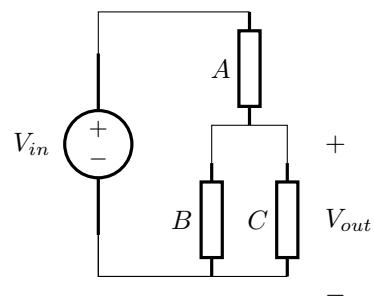


1 Voltage input, Voltage output

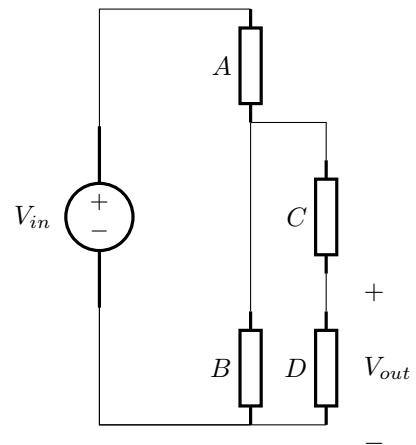
Example 1



Example 2

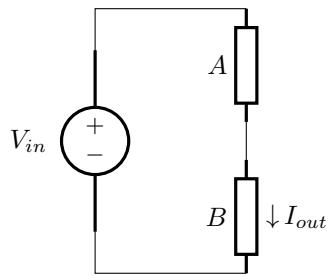


Example 3

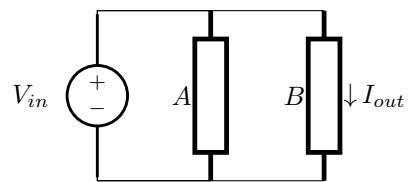


2 Voltage input, Current output

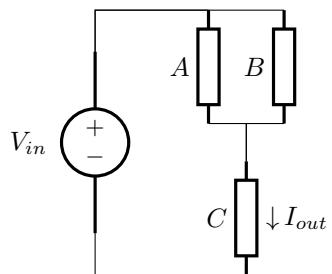
Example 1



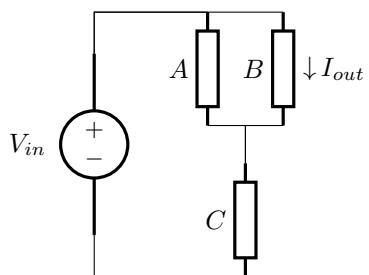
Example 2



Example 3

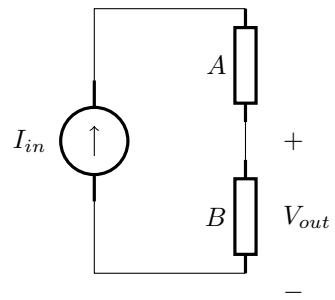


Example 4

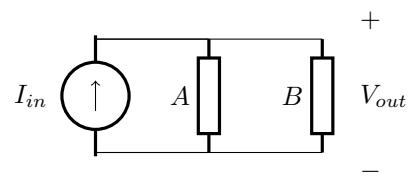


3 Current input, Voltage output

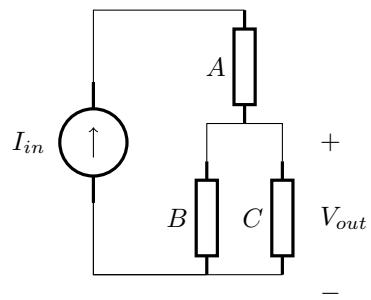
Example 1



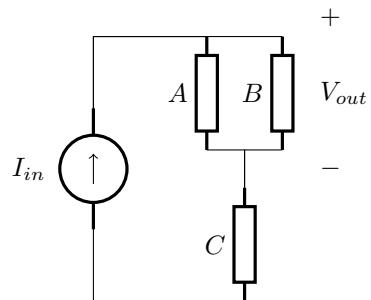
Example 2



Example 3

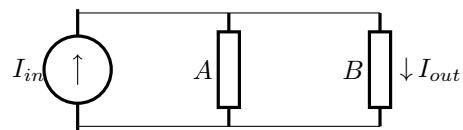


Example 4

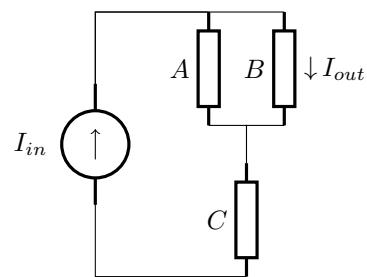


4 Current input, Current output

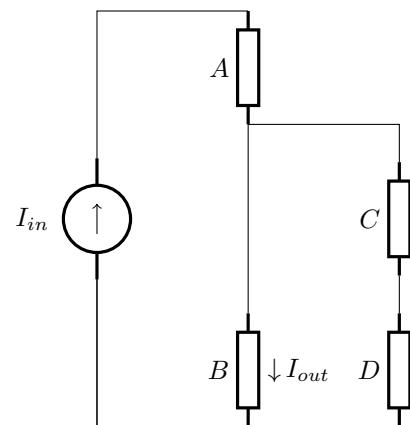
Example 1



Example 2



Example 3



5 Solutions

Voltage in, Voltage out

Example 1: $V_{out} = V_{in}(1 - \frac{B}{A+B})$

Example 2: $V_{out} = V_{in} \frac{BC}{AB+AC+BC}$

Example 3: $V_{out} = V_{in} \frac{D}{C+D} \frac{BC+BD}{AB+AC+AD+BC+BD}$

Voltage in, Current out

Example 1: $I_{out} = V_{in} \frac{1}{A+B}$

Example 2: $I_{out} = V_{in} \frac{1}{B}$

Example 3: $I_{out} = V_{in} \frac{A+B}{CA+CB+AB}$

Example 4: $I_{out} = V_{in} \frac{A}{CA+CB+AB}$

Current in, Voltage out

Example 1: $V_{out} = I_{in}B$

Example 2: $V_{out} = I_{in} \frac{AB}{A+B}$

Example 3: $V_{out} = I_{in} \frac{BC}{B+C}$

Example 4: $V_{out} = I_{in} \frac{AB}{A+C}$

Current in, Current out

Example 1: $V_{out} = I_{in} \frac{A}{A+B}$

Example 2: $V_{out} = I_{in} \frac{A}{A+B}$

Example 3: $V_{out} = I_{in} \frac{C+D}{B+C+D}$