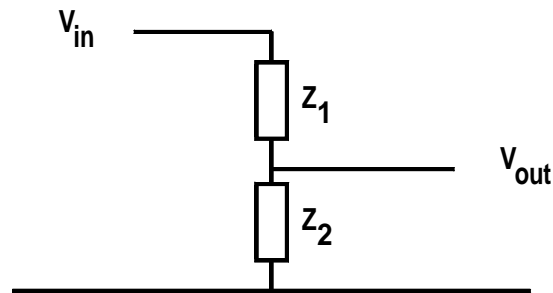


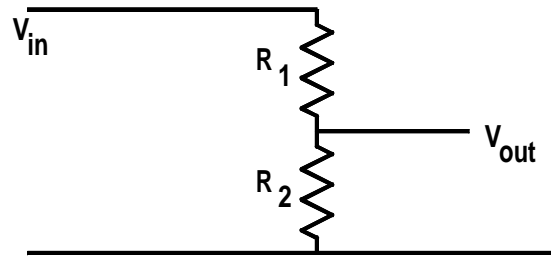
The output from a potential divider

1. Is sometimes greater than the input
2. Is equal to the input
3. Is sometimes less than the input
4. Is always less than the input



The output from a generalized potential divider

1. Is sometimes greater than the input
2. Is equal to the input
3. Is sometimes less than the input
4. Is always less than the input



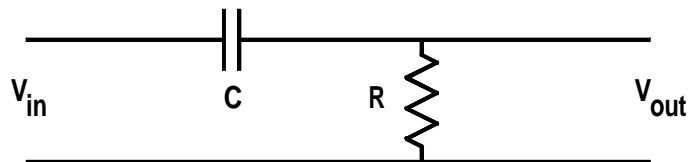
The output from this potential divider is given by

$$1. \quad \frac{V_o}{V_i} = \frac{R_1}{R_1 + R_2}$$

$$2. \quad \frac{V_o}{V_i} = \frac{R_1 + R_2}{R_2}$$

$$3. \quad \frac{V_o}{V_i} = \frac{R_2}{R_1 + R_2}$$

The equation representing the transfer function is



1. $\frac{V_o}{V_i} = \frac{j\omega C}{R + j\omega C}$

2. $\frac{V_o}{V_i} = \frac{R}{R + j\omega C}$

3. $\frac{V_o}{V_i} = \frac{R}{R + \frac{1}{j\omega C}}$

4. $\frac{V_o}{V_i} = \frac{j\omega C R}{1 + j\omega C R}$