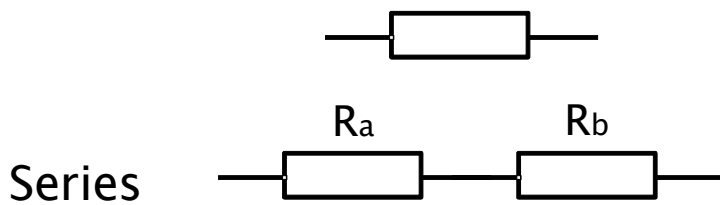
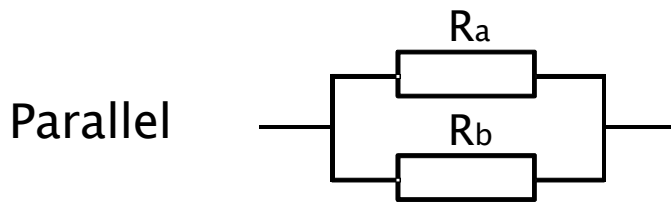


Series and Parallel Resistors and Capacitors



Resistor R

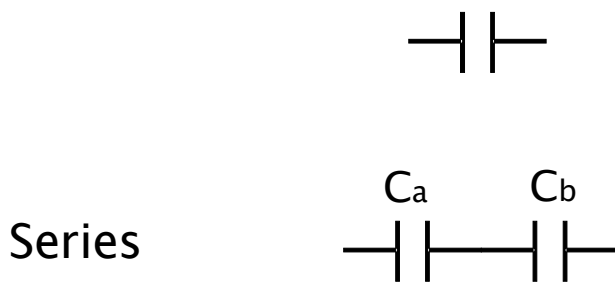
$$R_{\text{total}} = R_a + R_b$$



$$\frac{1}{R_{\text{total}}} = \frac{1}{R_a} + \frac{1}{R_b}$$

OR

$$R_{\text{total}} = \frac{R_a R_b}{R_a + R_b}$$

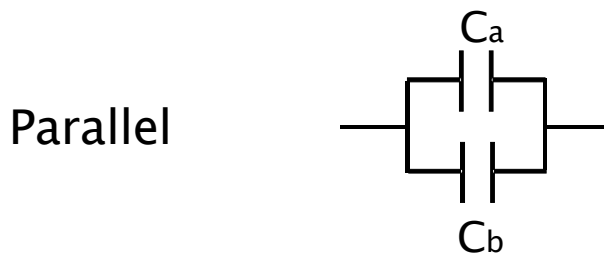


Capacitor C

$$\frac{1}{C_{\text{total}}} = \frac{1}{C_a} + \frac{1}{C_b}$$

OR

$$C_{\text{total}} = \frac{C_a C_b}{C_a + C_b}$$



$$C_{\text{total}} = C_a + C_b$$