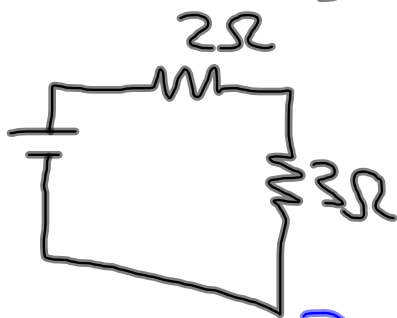


For series resistors



} THE TOTAL EFFECTIVE RESISTANCE  
= SUM of INDIVIDUAL  
RESISTANCES

$$R_e \rightarrow R_T = R_1 + R_2 + R_3 \dots$$

$$V = IR \quad I = \frac{V}{R}$$

$$R_T = 2\Omega + 3\Omega = 5\Omega$$

for parallel arrangement of resistors



$$\frac{1}{R_T} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_x}$$

$$\frac{1}{R_T} = \left[ \frac{1}{2} + \frac{1}{3} \right] = 0.833\bar{3}$$

$$R_T = \left[ \frac{1}{\frac{1}{R_1} + \frac{1}{R_2}} \right]$$

$$\frac{1}{R_T} = \frac{1}{R_1} + \frac{1}{R_2}$$

$$R_T = 1.2\Omega \quad \frac{1}{\frac{2}{3}} \quad \frac{3+2}{(2 \times 3)}$$

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

$$\left. \begin{array}{l} \frac{1}{R_1} \quad \frac{R_2}{R_1 R_2} \\ + \\ \frac{1}{R_2} \quad \frac{R_1}{R_1 R_2} \end{array} \right\}$$

$$\frac{1}{R_T} = \frac{R_1 + R_2}{R_1 R_2}$$

$$\frac{1}{R_T} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$

$$R_T = ?$$