

- What is the current if $4\ \Omega$ and $2\ \Omega$ resistors are connected in series and 6 V potential difference is applied?

Ans) $R = R_1 + R_2$
 $= 4\ \Omega + 2\ \Omega$
 $= \underline{\underline{6\ \Omega}}$

$$I = \frac{V}{R}$$
$$= \frac{6\text{ V}}{6\ \Omega}$$

\therefore current, $I = \underline{\underline{1\text{ A}}}$