

3. (a) Three resistors, each of value $3\ \Omega$, are arranged in two different arrangements as shown in Fig. 2. If the maximum allowable power for each individual resistor is $108\ \text{W}$, calculate the maximum power that can be dissipated by the circuits shown in Fig. 2(a) and 2(b).

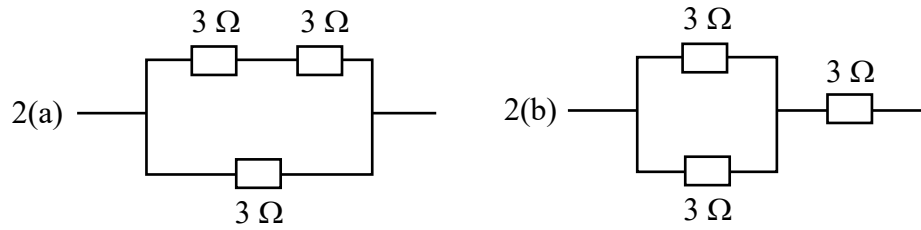


Fig. 2.

[4 marks]