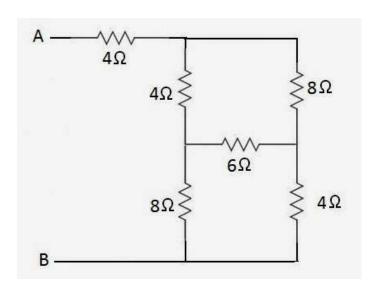
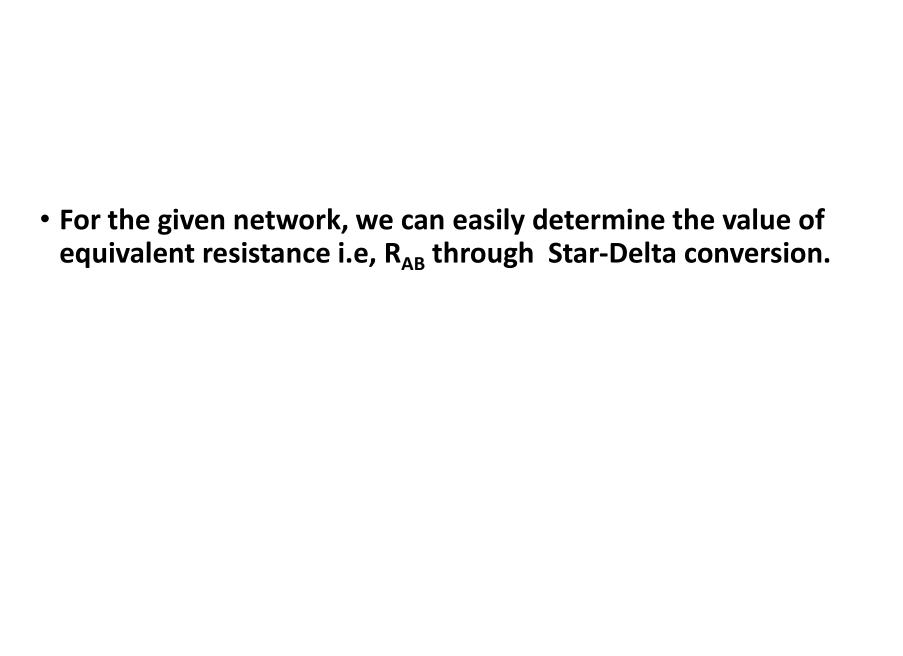
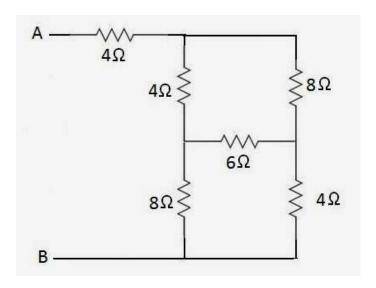
 Ques:- Find the equivalent resistance between A & B in the given network.

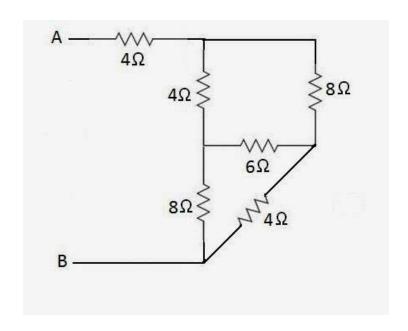




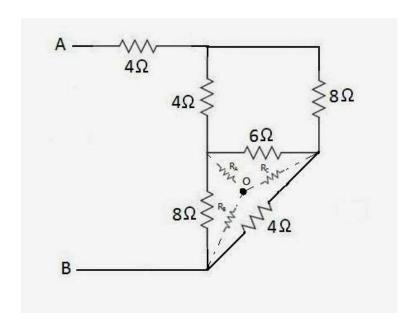
We have



Above network can also be represent as below:-



Now, I am going to solved this network by using delta to star conversion as shown in the figure given below:-



For the value of new star connected resistance are finding through direct formula of <u>delta to star</u> <u>conversion</u>, as shown below

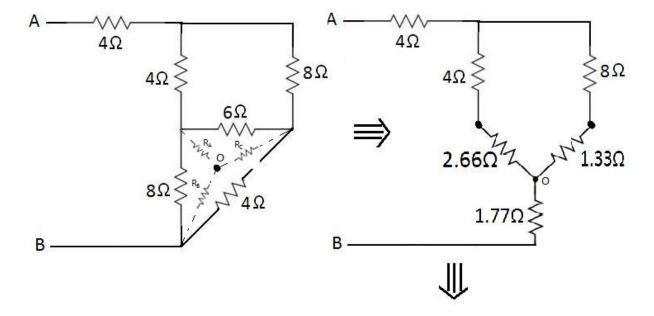
$$R_A = \frac{8 \cdot 6}{8+6 +4}$$

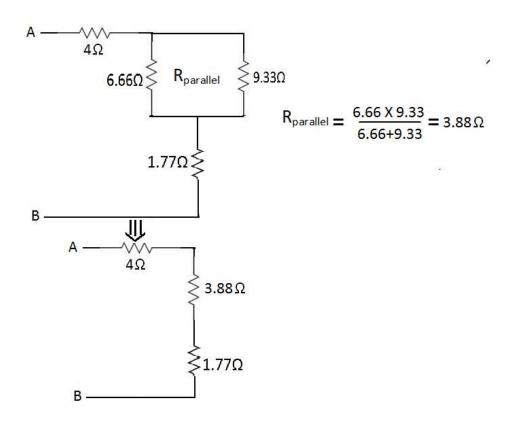
$$R_A = 2.66\Omega$$

$$R_{B} = \frac{8.4}{8+6.+4}$$

$$R_{B} = 1.77\Omega$$

$$R_{C} = \frac{6 \cdot 4}{8 + 6 + 4}$$
 $R_{C} = 1.33\Omega$





• so, R_{AB} or $R_{equivalent}$ = R_1 + R_2 + R_3 = 4Ω + 3.88Ω + 1.77Ω = 9.65Ω Answer