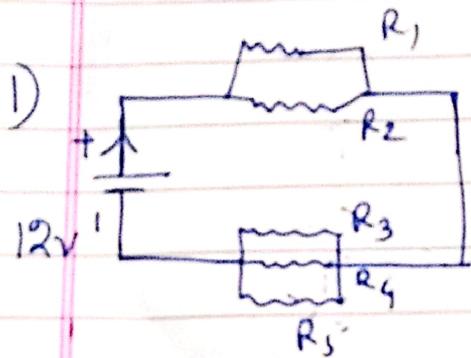
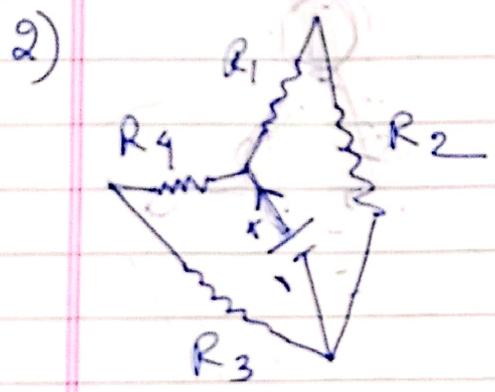


## Circuit diagrams



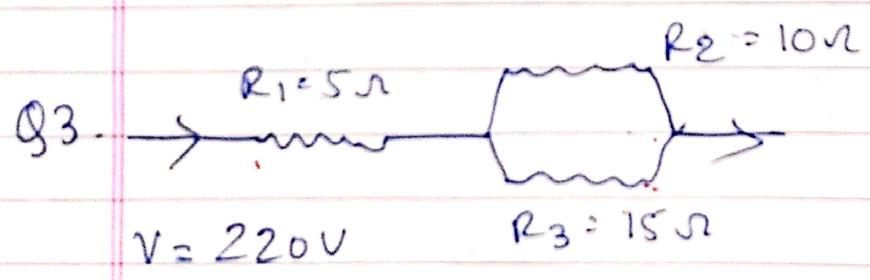
- $R_1 = 10\ \Omega$
- $R_2 = 40\ \Omega$
- $R_3 = 30\ \Omega$
- $R_4 = 20\ \Omega$
- $R_5 = 60\ \Omega$
- $I = ?$

Ans -

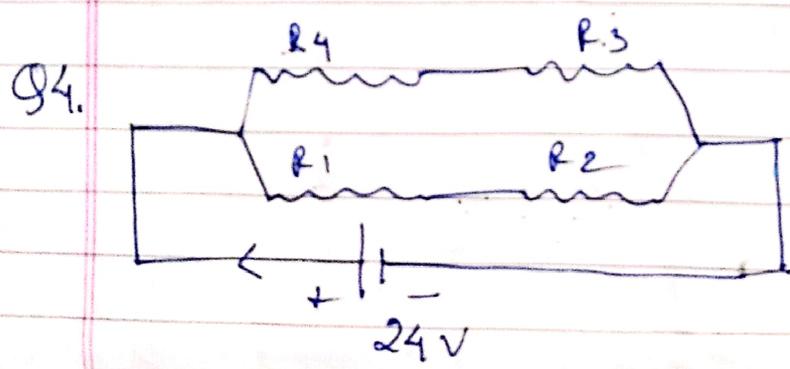


- $R_1 = 4\ \Omega$
- $R_2 = 8\ \Omega$
- $R_3 = 8\ \Omega$
- $R_4 = 4\ \Omega$

Total  $R = ?$

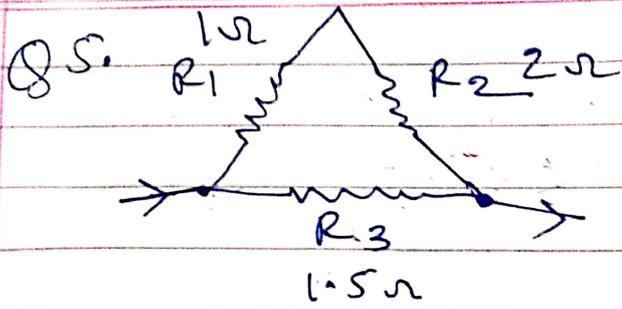


- $R = ?$
- $I = ?$

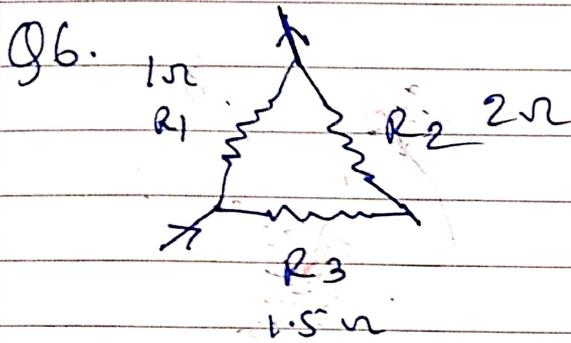


- $R_1 = 15\ \Omega$
- $R_2 = 10\ \Omega$
- $R_3 = 20\ \Omega$
- $R_4 = 5\ \Omega$

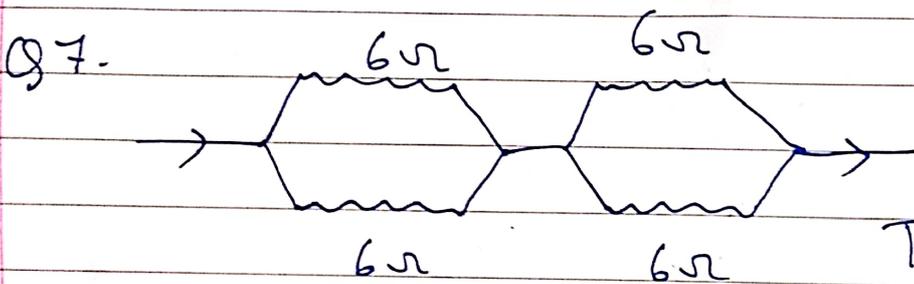
Total  $R$  and  $I = ?$



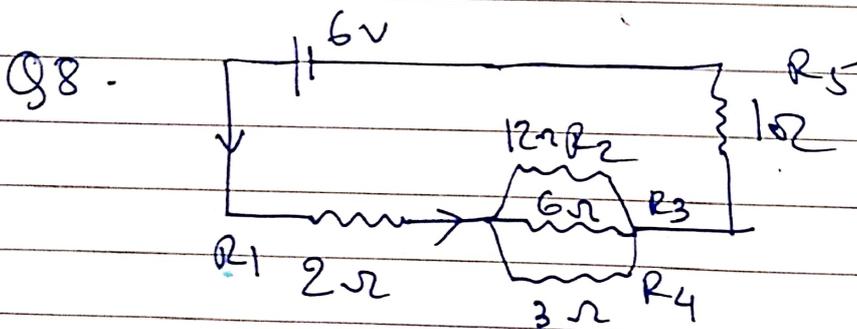
Total R ?



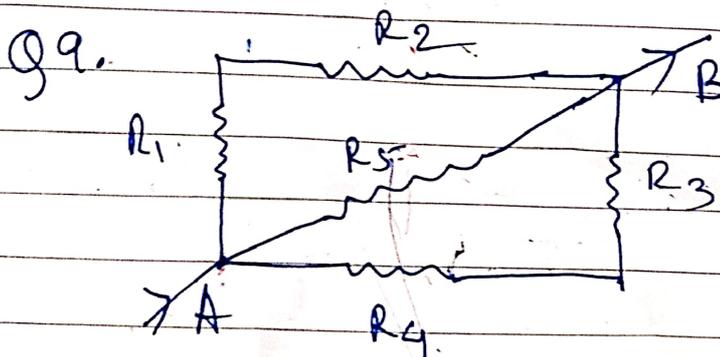
Total R ?



Total R ?



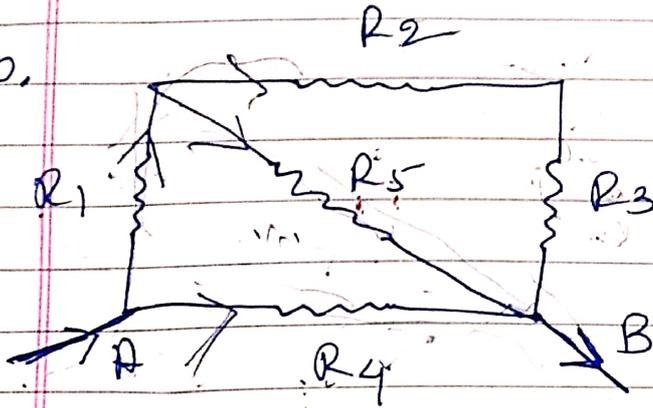
Total R and I ?



- $R_1 = 3\Omega$
- $R_2 = 2\Omega$
- $R_3 = 2\Omega$
- $R_4 = 3\Omega$
- $R_5 = 1\Omega$

Total R ?

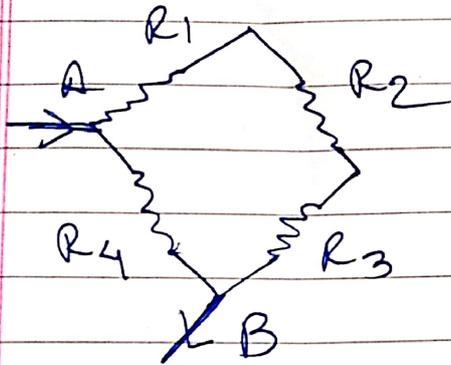
Q10.



- $R_1 = 3\Omega$
- $R_2 = 2\Omega$
- $R_3 = 2\Omega$
- $R_4 = 3\Omega$
- $R_5 = 1\Omega$

Total  $R = ?$

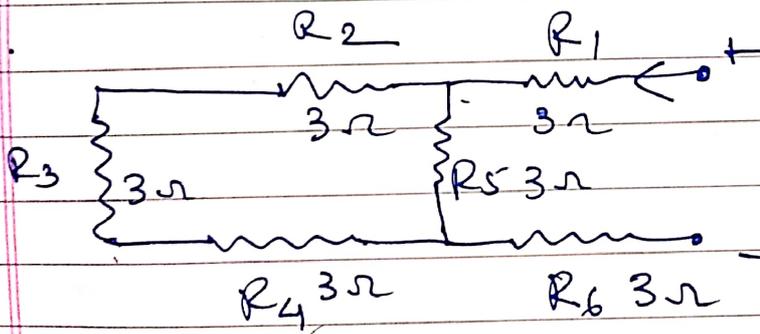
Q11.



- $R_1 = 1\Omega$
- $R_2 = 1\Omega$
- $R_3 = 1\Omega$
- $R_4 = 3\Omega$

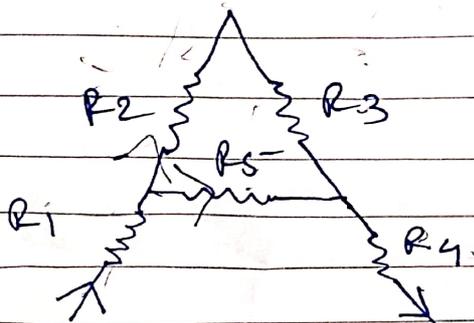
Total  $R = ?$

Q12.



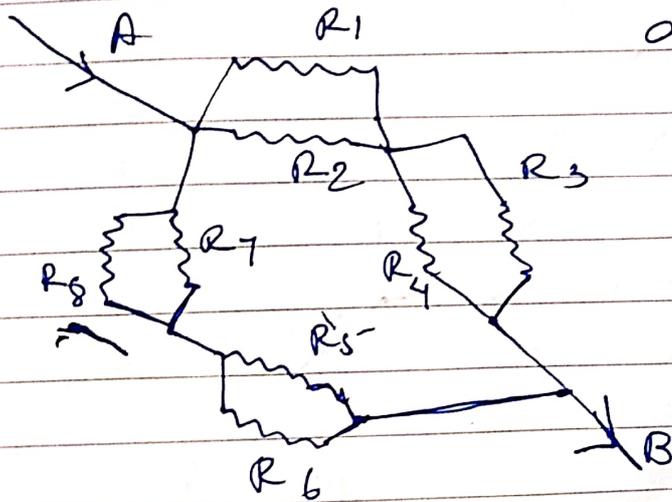
Total  $R = \frac{9}{6}$

Q13.



- $R_1 = 3\Omega$
- $R_2 = 3\Omega$
- $R_3 = 3\Omega$
- $R_4 = 3\Omega$
- $R_5 = 3\Omega$

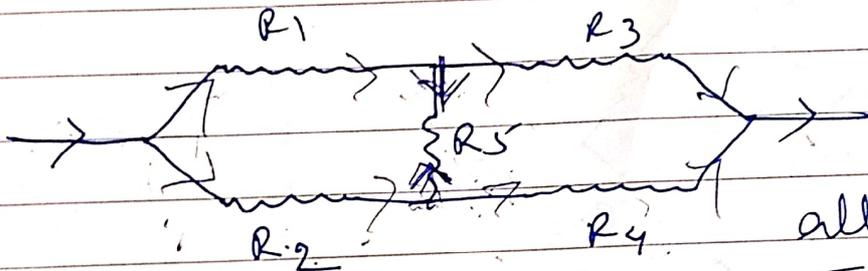
Q14.



all  $R_s = 2\Omega$

Total  $R = ?$

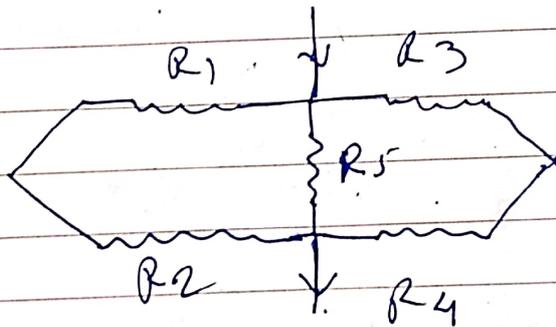
Q15.



all  $R_s = 1\Omega$

Total  $R = ?$

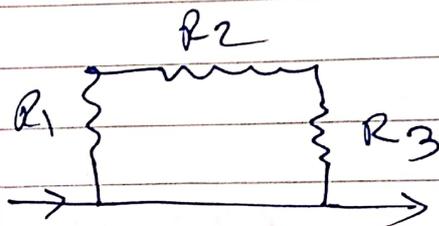
Q16.



all  $R_s = 1\Omega$

Total  $R = ?$

Q17.



$R_1 = 2\Omega$

$R_2 = 5\Omega$

$R_3 = 6\Omega$

Total  $R = ?$