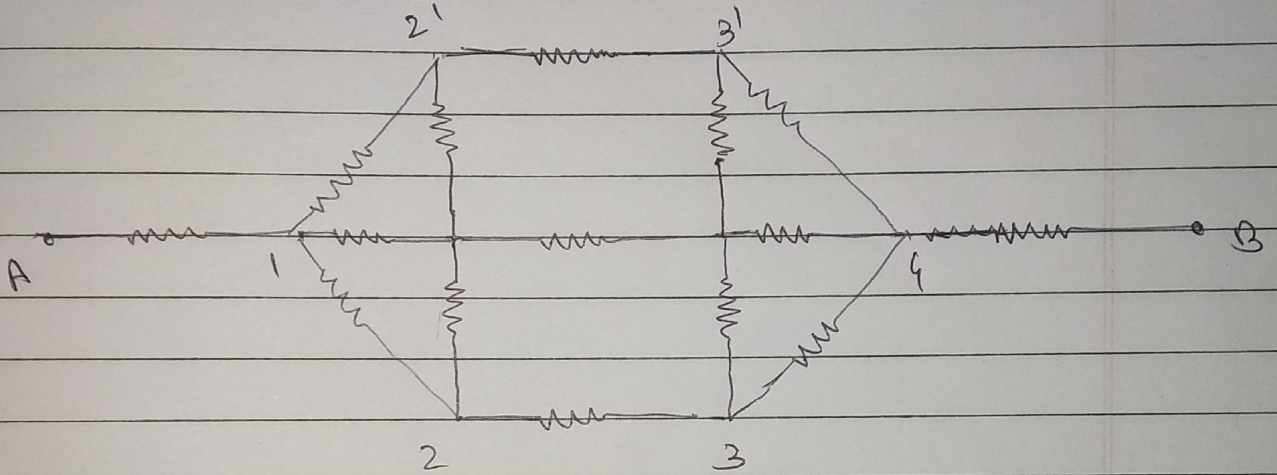


### # Some Tricks to solve complex circuits :-

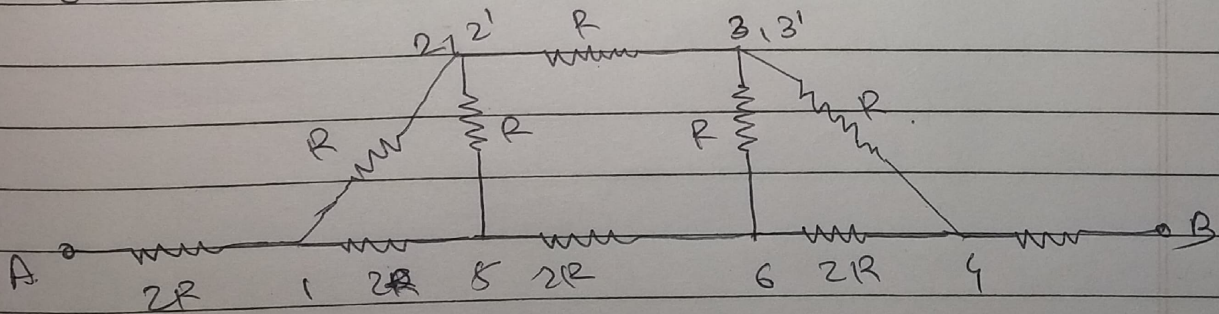
Q) Find the equivalent Resistance of the given circuit between points A and B.



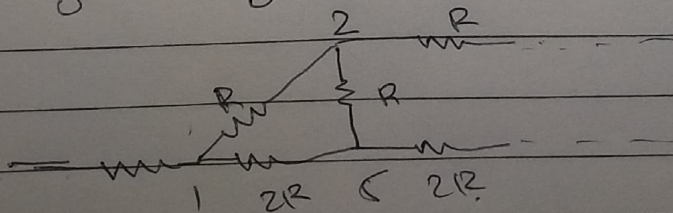
All Resistances have same value  $2R$ .

⇒ Sol<sup>n</sup> :- Above circuit is symmetric about A, B  
So the voltage at 2, 2' and 3, 3' are same

∴ we can fold the circuit about A and B.



Now, By using Kirchhoff law





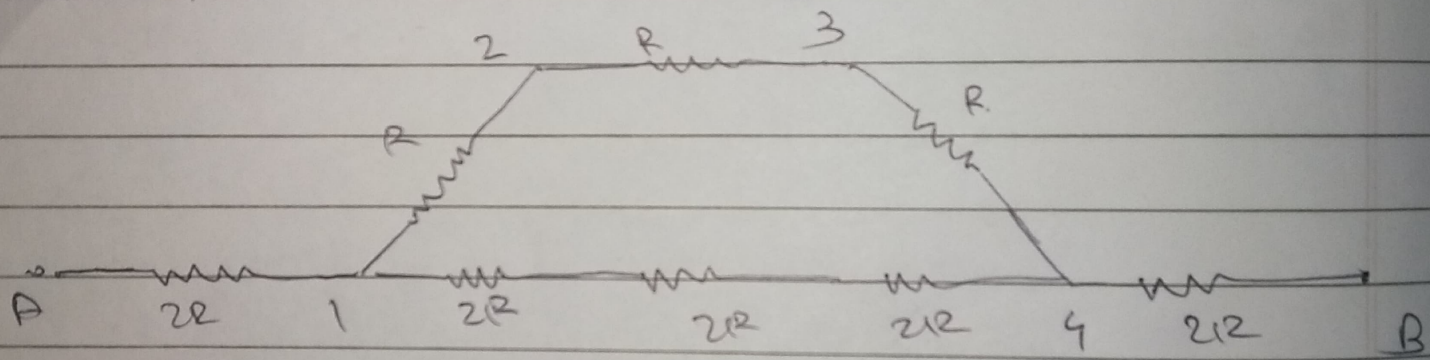
Date \_\_\_/\_\_\_/\_\_\_

$$\frac{R}{2R} = \frac{R}{2R}$$

∴ points 2 and 5 are at same voltage  
∴ these are short

Similarly 3 and 6 are also at same voltage

∴ Now, the circuit becomes



Now, we can solve the circuit easily.  
By  $\Delta$