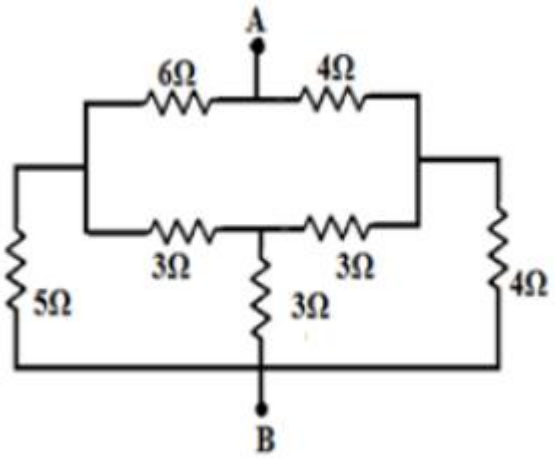
Notes Class - 9

Example:Using Star and Delta transformation determine the equivalent resistance between the terminals A & B.



Solution:

3Ω - 3Ω - 3Ω star when converted to delta would be 9Ω - 9Ω - 9Ω

9Ω is in parallel with 5Ω which gives 3.21Ω

9Ω is in parallel with 4Ω which gives 2.77Ω

Changing 6Ω - 4Ω - 9Ω delta to star, we get 1.26Ω - 1.89Ω - 2.84Ω

Finally (2.84Ω + 3.21Ω) II (1.89Ω + 2.77Ω) + 1.26Ω = **3.89Ω**