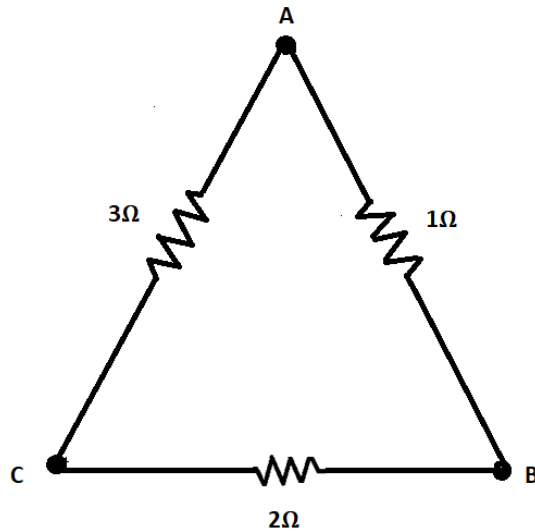


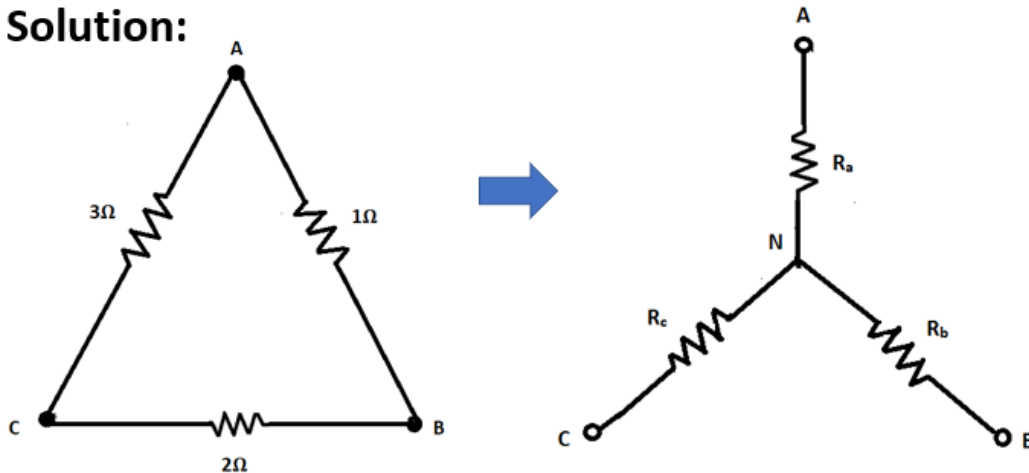
Unit I: Assessment: Q & A (Selected)

Lecture 7

2. Transform the given delta to equivalent star:



Solution:



$$R_a = \frac{R_{ab} * R_{ca}}{(R_{ab} + R_{bc} + R_{ca})} = \frac{1 * 3}{(1 + 2 + 3)} = \frac{1}{2} \Omega$$

$$\text{Similarly, } R_b = \frac{1 * 2}{(1 + 2 + 3)} = \frac{1}{3} \Omega \text{ \& } R_c = \frac{2 * 3}{(1 + 2 + 3)} = 1 \Omega$$