

Question 1



Resistors B and C are in parallel:

$$\frac{1}{R_{BC}} = \frac{1}{20\Omega} + \frac{1}{20\Omega} = \frac{2}{20\Omega} \Rightarrow R_{BC} = 10\Omega$$

and this is in series with resistor A

so R_{AC} is the resistance across A and C

Resistors B and C are in parallel in

$$\frac{1}{R_{BC}} = \frac{1}{20\Omega} + \frac{1}{20\Omega} \Rightarrow R_{BC} = 10\Omega$$

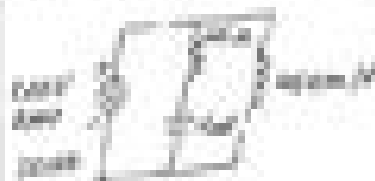
and this is in series with R_{AC}

so $R_{AC} = 10\Omega + 10\Omega = 20\Omega$

in parallel B and C are in parallel in

$R_{AC} = 10\Omega + 10\Omega$ and is equal and that is the answer

in the circuit diagram with $\frac{1}{R_{AC}} = \frac{1}{R_A} + \frac{1}{R_{BC}}$



$$\frac{1}{R_{AC}} = \frac{1}{10\Omega} + \frac{1}{10\Omega}$$

$$\frac{1}{R_{AC}} = \frac{2}{10\Omega} \Rightarrow R_{AC} = 5\Omega$$

ii) $R = 10\Omega$ for the resistance

$$R_A = 10\Omega + (10\Omega + 10\Omega) = 30\Omega$$

$$R_B = \frac{1}{R_{AC}} = \frac{1}{10\Omega} + \frac{1}{10\Omega} = \frac{2}{10\Omega} = 0.2\Omega$$

then is in series with 10Ω so that gives:

$$R_{AC} = 10\Omega + 10\Omega$$

and $10\Omega + 10\Omega$ is in parallel with 10Ω (10 ohms)

$$\frac{1}{R_{AC}} = \frac{1}{10\Omega + 10\Omega} + \frac{1}{10\Omega}$$

$$\frac{1}{R_{AC}} = \frac{10\Omega + 10\Omega}{(10\Omega + 10\Omega)(10\Omega)} = \frac{20\Omega}{(10\Omega + 10\Omega)10\Omega}$$

$$\begin{aligned} 10\Omega + 10\Omega &= 20\Omega \\ 10\Omega + 10\Omega &= 20\Omega \\ 10\Omega &= 10\Omega \end{aligned}$$

$$\frac{1}{R_{AC}} = \frac{20\Omega}{20\Omega \times 10\Omega} = \frac{1}{10\Omega} \Rightarrow R_{AC} = 10\Omega$$

$$R_{AC} = 10\Omega + 10\Omega$$

Electrotechnology N3 April 20memorandum

Tommy Ferreira



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