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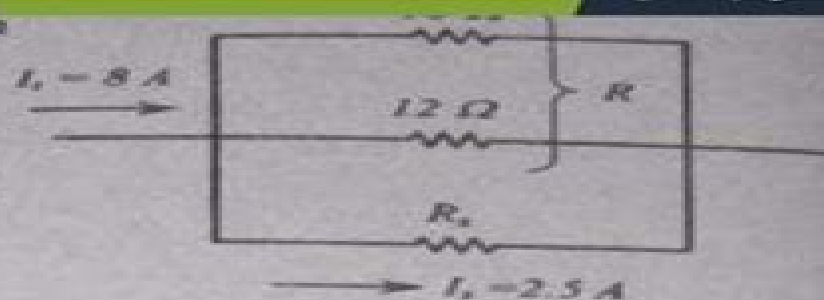
$$R = \frac{R_1 R_2}{R_1 + R_2} = \frac{10(12)}{10 + 12} = 5.45 \Omega$$

By CDT:

$$I_x = \frac{I_1 R}{R_x + R}$$

$$R_x = \frac{I_1 R}{I_x} - R = \frac{8(5.45)}{2.5} = 5.45$$

$$R_x = 12 \Omega$$



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At 100°C:

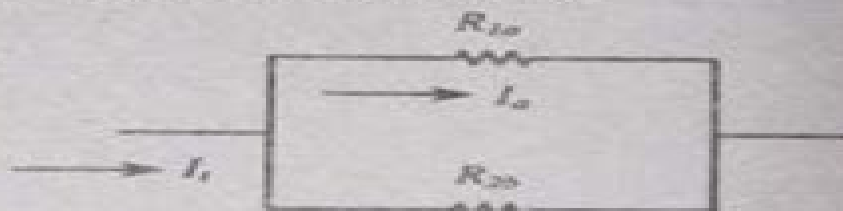
$$R_{2a} = R_{1a}(1 + \alpha_a \Delta t) = R_{1a}[1 + 0.004(100 - 20)] = 1.32 R_{1a}$$

$$R_{2b} = R_{1b}(1 + \alpha_b \Delta t) = R_{1b}[1 + 0.006(100 - 20)] = 1.48 R_{1b}$$

Note: Since they draw equal currents at 20 °C, then $R_{1a} = R_{1b} = R$.
By CDT:

$$I_x = \frac{I_1 (1.48R)}{1.32R + 1.48R} = 0.5286 I_1$$

$$I_x = 52.86\% \text{ of } I_1$$



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At 100°C:

$$R_{2a} = R_{1a}(1 + \alpha_a \Delta t) = R_{1a}[1 + 0.003(60 - 15)] = 1.135 R_{1a}$$

$$R_{2b} = R_{1b}(1 + \alpha_b \Delta t) = R_{1b}[1 + 0.005(60 - 15)] = 1.225 R_{1b}$$

Note: Since they draw equal powers at 15 °C, then $R_{1a} = R_{1b} = R$.

$$P_a = \frac{E^2}{R_{2a}}; \quad P_b = \frac{E^2}{R_{2b}}$$

$$\frac{P_b}{P_a} = \frac{R_{2a}}{R_{2b}} = \frac{1.135 R}{1.225 R} = 0.926$$

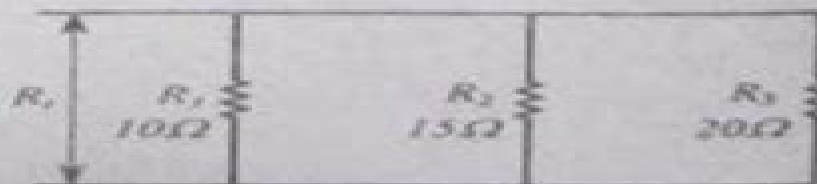
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$$G_1 = \frac{1}{R_1}$$

$$\frac{1}{R_1} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$

$$G_1 = \frac{1}{10} + \frac{1}{15} + \frac{1}{20}$$

$$G_1 = 0.2167 \text{ mho}$$



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