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General Questions

Practice Questions

Q1. What is the total current in a parallel circuit with two branches, one with 5A and the other with 3A? (2022)

A. 8A
B. 15A
C. 2.5A
D. 5A

Solution: Total current in parallel = I1 + I2 = 5A + 3A = 8A.

Q2. What is the total current in a series circuit with a 10Ω resistor and a 20Ω inductor connected to a 100V AC source at 50Hz? (2023)

A. 2A
B. 4A
C. 5A
D. 10A

Solution: Total impedance $Z = \sqrt{(R^2 + (\omega L)^2)} = \sqrt{(10^2 + (2\pi(50)(20))^2)}$. Calculate to find current.

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