SoulShift

SoulShift – Educational Q&A Platform

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 = √(R² + (ωL)²) = √(10² + (2π(50)(20))²). Calculate to find current.