

BASIC ELECTRICAL & ELECTRONICS ENGINEERING

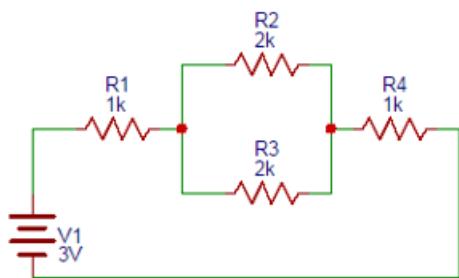
1. How much current will flow through a 10-V battery with a 100Ω resistor connected across its terminals?

- (a) 0.1 A (b) 1.0 A (c) 0 A (d) 1,000 A

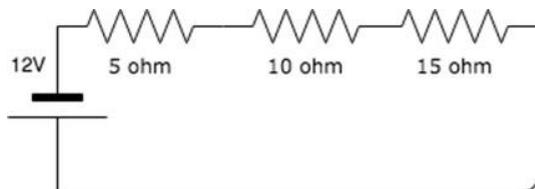
2. Three resistance of 15Ω each are connected in delta. Calculate total equivalent resistance of equivalent star will have a value of

- (a) 12Ω (b) 5Ω (c) $5/3\Omega$ (d) 45Ω

3. Find total current (mA) in the circuit.



4. Calculate the voltage across the 10 ohm resistor.



5.. A resistor of 5Ω is connected across a potential difference of 100V.Calculate the power dissipated and energy transferred to heat in 2 minutes?

6.. Using Nodal analysis method, determine the voltages V_a & V_b and current through the 6Ω resistance.

