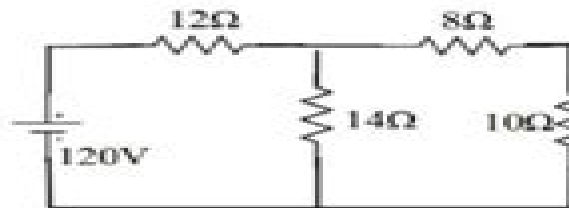


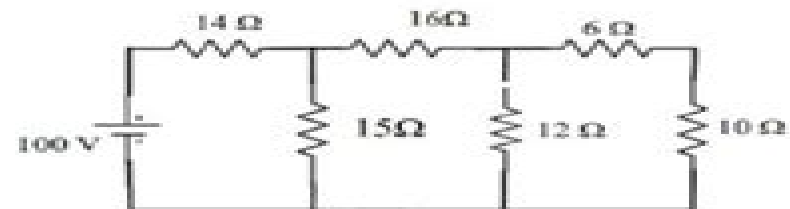
APPLIED ELECTRICITY

ASSIGNMENT SOLUTIONS

Calculate the current flowing in the 10Ω resistor for (a) and (b) below using the Current Divider Rule.



Q1



Q2

SOLUTION TO Q1

- Calculating the total resistance (R_T) gives:

$$R_T = 12 + \frac{14(18)}{14 + 18}$$

$$R_T = 19.875\Omega$$

- Thus, Calculating the total current (I) that flows in the circuit gives,

$$I = \frac{120}{19.875}$$

$$I = 6.038A$$

- By applying current divider rule to calculate the current through the 10Ω resistor i.e $I(10\Omega)$ gives:

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