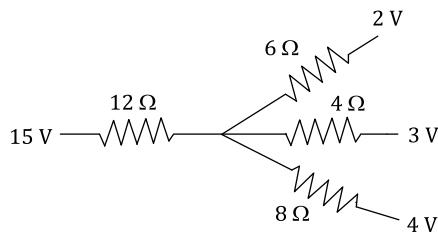


DPP -3

1. Find the current through 12Ω resistor in figure is $k / 180$, then value of $k =$

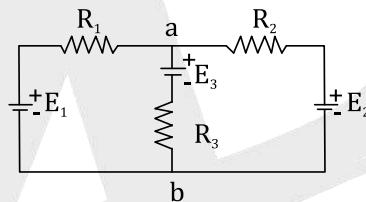


2. Calculate the current through each resistance in the given circuit the potential difference between the points a and b is $N/11$, then $N = \underline{\hspace{2cm}}$

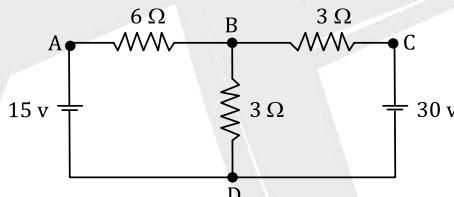
$$E_1 = 6 \text{ V}, \quad E_2 = 8 \text{ V}, \quad E_3 = 10 \text{ V},$$

$$R_1 = 5\Omega, \quad R_2 = 10\Omega, \quad R_3 = 4\Omega$$

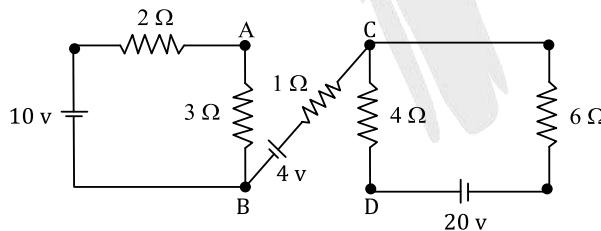
Assume that all the cells have no internal resistance.



3. In the circuit shown in Fig., find the current through the branch BD.



4. In the circuit shown in Fig, determine the voltage drop between A and D.



- (A) $10 / 3$ (B) $5/3$ (C) 6 (D) 5

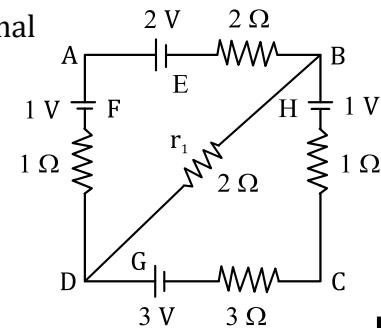
5. In the circuit shown in Fig., E, F, G, and H are cells of emf 2,1,3, and 1 V, respectively. The resistances 2Ω , 1Ω , 3Ω , and 1Ω are their respective internal resistances. Find the potential difference between B and D.

- (A) 10/3

- (B) 5/3

- (C) 11/3

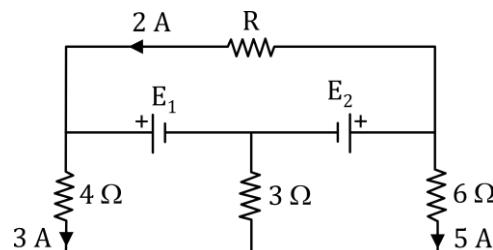
- (D) 23/3





Comprehension Q.6 to Q.8

Based on the circuit diagram shown answer the following questions.



6. The current in the 3Ω resistor is
(A) 2 A (B) 4 A (C) 8 A (D) 10 A
7. The respective E_1 and E_2 values, in volt, are given by
(A) 34,56 (B) 36,54 (C) 54,36 (D) 56,34
8. The resistance R , in ohm is
(A) 3Ω (B) 6Ω (C) 7.5Ω (D) 9Ω



ANSWER KEY

1. 157 2. 90 3. (D) 4. (C) 5. (A) 6. (C) 7. (B)
8. (D)

