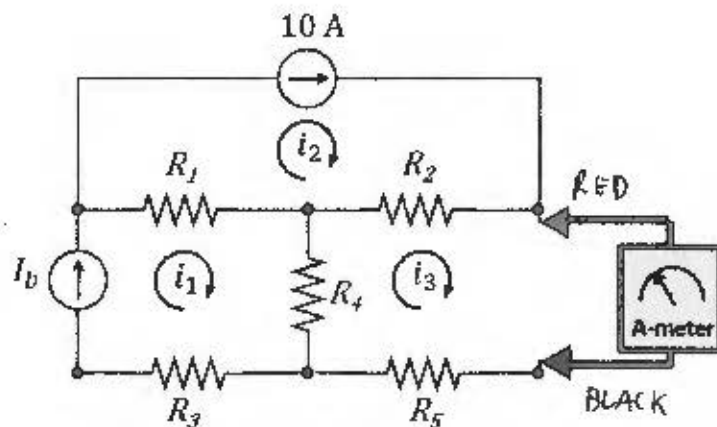


Given the ammeter reading X ,
find the value of resistance R_4 .



$$R_1 = 19 \, \Omega$$

$$R_2 = 2 \, \Omega$$

$$R_3 = 3 \, \Omega$$

$$R_5 = 2 \, \Omega$$

$$X = 3 \, \text{A}$$

$$I_b = 1 \, \text{A}$$

$$i_3 = X = 3$$

$$i_1 = I_b = 1$$

$$i_2 = 10$$

⊗ KVL MESH 3. $R_4(i_3 - i_1) + R_2(i_3 - i_2) + 0 + R_5 i_3 = 0$

$$R_4 \cdot 2 + 2 \cdot (-7) + 2 \cdot 3 = 0$$

$$\boxed{R_4 = 4 \, \Omega}$$