

# Electric Circuit Solutions

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## Electric Circuit Solutions

Electric circuits - problems and solutions. 1.  $R_1 = 6 \Omega$ ,  $R_2 = R_3 = 2 \Omega$ , and voltage = 14 volt, determine the electric current in circuit as shown in figure below. Known : Resistor 1 ( $R_1$ ) =  $6 \Omega$ . Resistor 2 ( $R_2$ ) =  $2 \Omega$ . Resistor 3 ( $R_3$ ) =  $2 \Omega$ . Voltage (V) = 14 Volt. Wanted : Electric current (I) Solution : Equivalent resistor (R) : R ...

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Part: I. 1. Soln: Let  $I_1$  and  $I_2$  be the currents through the batteries  $E_1$  and  $E_2$  respectively.. Given,  $E_1 = 6V$ ,  $r_1 = 0.1$  ohm..  $E_2 = 10V$ ,  $r_2 = 1$  ohm.. External resistance (R) = 12 ohm. Applying Kirchoff's law for ARBE 1 A. Or,  $(I_1 + I_2)R + I_1 r_1 = E_1$ .. Or,  $(I_1 + I_2)12 + I_1 * 0.1 = 6$  ... (i). For ARBE 2 A,. Or,  $(I_1 + I_2)12 + I_2 = 10$  ... (ii).. Subtracting (i) from (ii), we get,

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1.(1)What is electric circuit? (2)How many types of electric circuit are there? Define them. (3)Draw a diagram to show the closed circuit for switch, bulb and dry cell. Ans: (1)The diagram that shows the path of electric current is called electric circuit. (2)There are two types of electric circuit: (a) Open electric circuit (b) Closed electric ...

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An RCCB (Residual Current Circuit Breaker) or RCD (Residual Current Device) is a separate device used for detecting and preventing low voltage circuit if there is a current leak. ... As such, if it comes in contact with wood, plastic or other combustible materials, it poses a high risk of an electrical fire. Solution.

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9) Electric shocks . When the electricity is not properly used, it results in electrical shocks with a nasty experience. The chances of such electrical problems in old homes were quite high because the circuits fitted during older days. An electric shock happens when you switch on or off a device.

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Although there is no correct way to work this problem, this is one of the many possible solutions. Note that the solution process must follow the same basic steps. Problem. Use KCL to obtain currents  $i_1$ ,  $i_2$ , and  $i_3$  in the circuit shown in Fig. 2.72 given that  $i_a = 2$  amps,  $i_b = 3$  amps, and  $i_c = 4$  amps. Solution

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A simple electric circuit. L1 C4 Antenna Q C5 2 R7 R2 R4 R6 R3 R5 C1 C3 C2 Electret microphone R1 + - + 9 V (DC) Q1 Figure 1.2 Electric circuit of a radio transmitter. Introduction Electric circuit theory and electromagnetic theory are the two fundamental theories upon which all branches of electrical engineering are built.

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