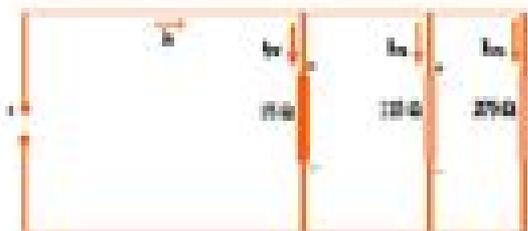


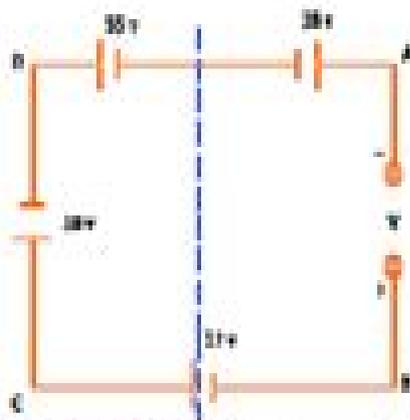
Section 3-Electrical Circuits

18 The following circuit shows the Kirchhoff's law in action, where three resistors are in parallel connection. If the resistance of these three resistors becomes R_1 Ω, 125 Ω, and 275 Ω, then calculate the current through each resistor. (Where the source voltage is 120 V)



- $I_1 = 3.2$ amperes, $I_2 = 3.8$ amperes, $I_3 = 1.00$ amperes
- $I_1 = 1.2$ amperes, $I_2 = 5.50$ amperes, $I_3 = 2.30$ amperes
- $I_1 = 1.8$ amperes, $I_2 = 1.04$ amperes, $I_3 = 0.44$ amperes
- $I_1 = 3.8$ amperes, $I_2 = 7.80$ amperes, $I_3 = 1.50$ amperes

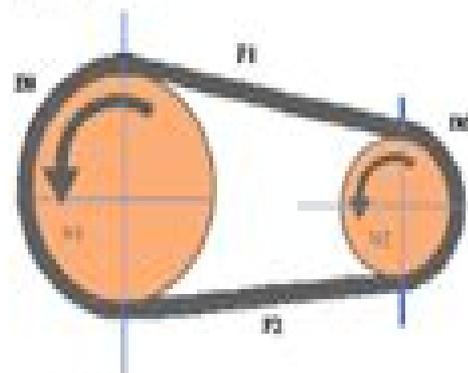
19 Following figure illustrates an electrical circuit connection where four sources are connected in a series connection with an open switch. Calculate the voltage V of the open switch point during from point A to the clockwise direction.



- $V = 30$ volts
- $V = 80$ volts
- $V = 20$ volts
- $V = 10$ volts

Section 4-Pulleys

20 Assume two wheels are connected by a pulley belt. If the tangential velocity of both pulleys becomes same and also the velocity of the belt, then which one of the following relationship is correct?



- $\omega_1 / \omega_2 = R_2 / R_1$
- $\omega_1 / \omega_2 = R_1 / R_2$
- $\omega_1 / \omega_2 = (R_1 / R_2)^2$
- $\omega_1 = \omega_2 / R_1$

21 In a simple belt-pulley arrangement, assume that two opposite forces are F_1 and F_2 . How many times around the belt does it transmit by this pulley arrangement?



- $F = 2 \times F_2 / \omega_1$
- $F = \omega_1 / \omega_2$
- $F = \omega_2 / \omega_1 + F_1$
- $F = \omega_1 \omega_2 + F_1$

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