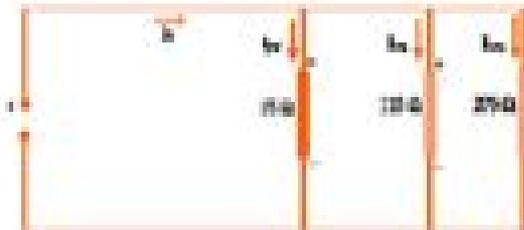


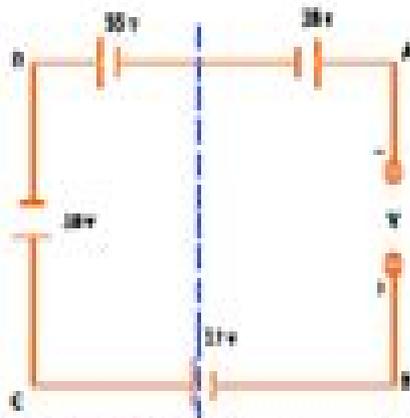
## Section 3-Electrical Circuits

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,  $I_3 = 1.0$  amperes
- $I_1 = 1.2$  amperes,  $I_2 = 5.5$  amperes,  $I_3 = 2.3$  amperes
- $I_1 = 1.8$  amperes,  $I_2 = 1.0$  amperes,  $I_3 = 0.4$  amperes
- $I_1 = 3.8$  amperes,  $I_2 = 7.8$  amperes,  $I_3 = 1.5$  amperes

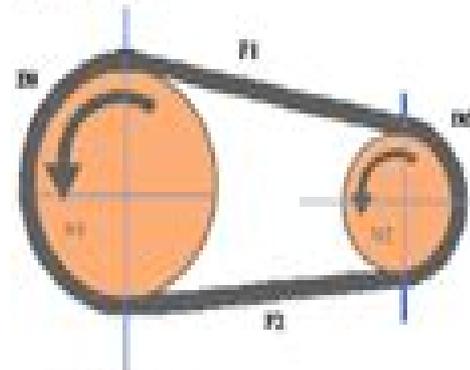
19 Following figure illustrates an electrical circuit connection where four sources are connected in a series connection with an open switch. Calculate the voltage  $V$  of the open switch point during from point  $B$  in the clockwise direction.



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

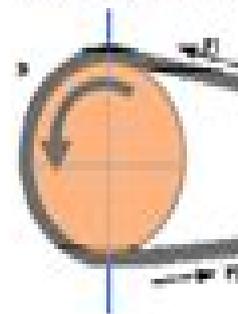
## Section 4-Pulleys

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 can you calculate the net power transmitted by this pulley arrangement?



- $P = \omega \cdot (F_1 - F_2) / 2$
- $P = \omega / 2$
- $P = \omega (F_1 + F_2)$
- $P = \omega (F_1 + F_2)$

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