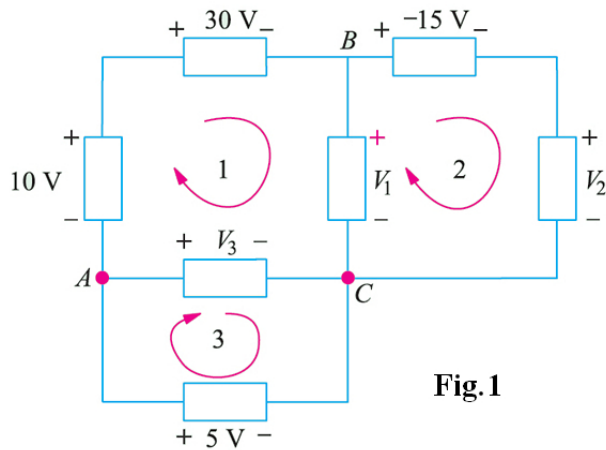


**P-01**

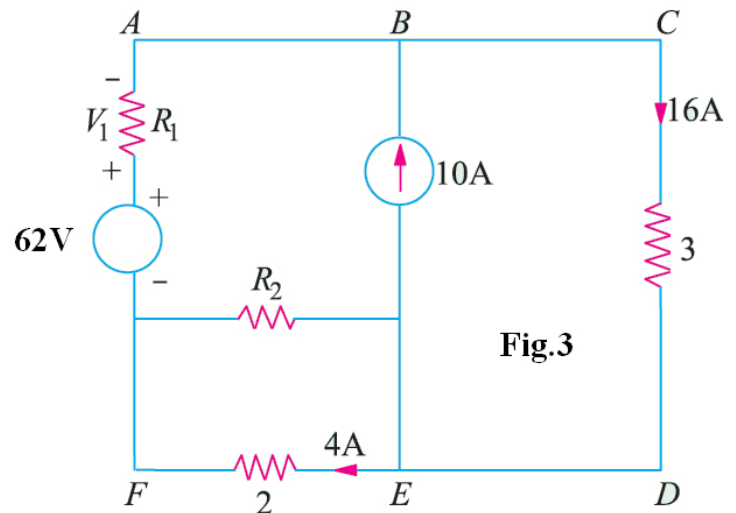
Applying Kirchhoff's laws to different loops in Fig. 1, find the values of  $V_1$  and  $V_2$ .



**Fig.1**

**P02**

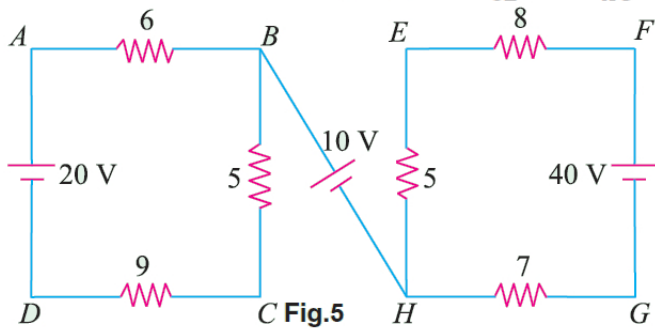
Find the unknown voltage  $V_1$  in the circuit of Fig. 3



**Fig.3**

**P03**

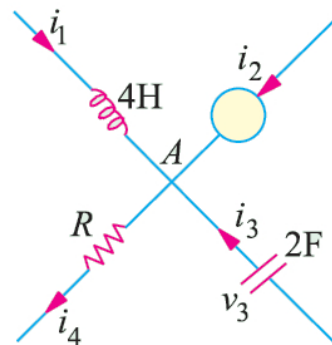
For the circuit shown in Fig. 5, find  $V_{CE}$  and  $V_{AG}$ .



**Fig.5**

**P04**

In the network of Fig. 3, the different currents and voltages are as under :  
 $i_2 = 5e^{-2t}$ ,  $i_4 = 3 \sin t$  and  $v_3 = 4e^{-2t}$   
 Using KCL, find voltage  $v_1$ .



**Fig. 3**