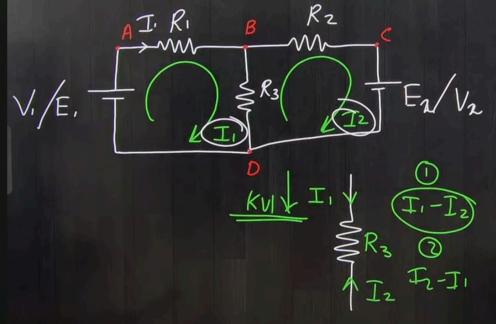
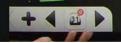


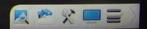
Maxwell's Mesh Current Method.



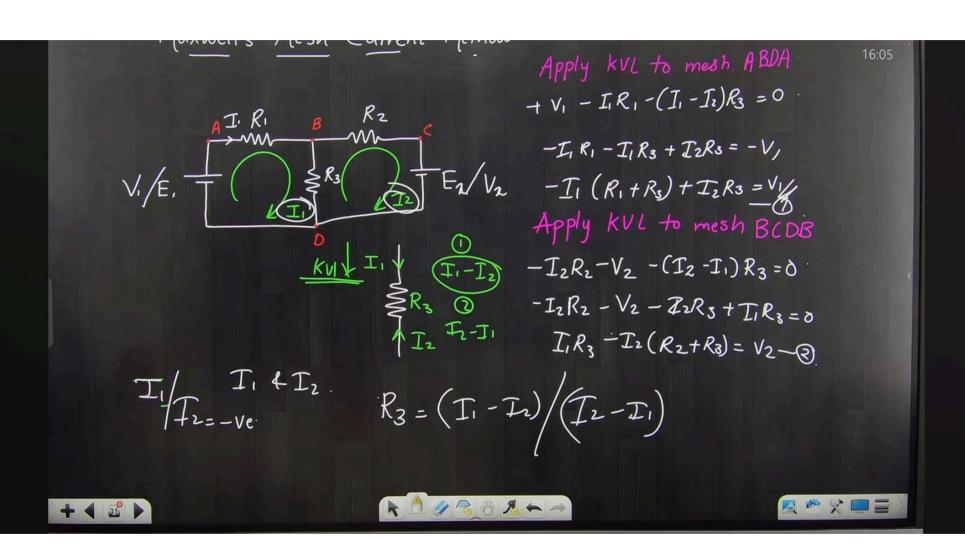
Apply kVL to mesh ABDA  $+ V_1 - I_1R_1 - (I_1 - I_2)R_3 = 0$   $-I_1R_1 - I_1R_3 + I_2R_3 = -V_1$   $-I_1(R_1 + R_3) + I_2R_3 = V_1$ Apply kVL to mesh BCDB  $-I_2R_2 - V_2 - (I_2 - I_1)R_3 = 0$   $-I_2R_2 - V_2 - I_2R_3 + I_1R_3 = 0$   $I_1R_3 - I_2(R_2 + R_3) = V_2 - (R_3)$ 

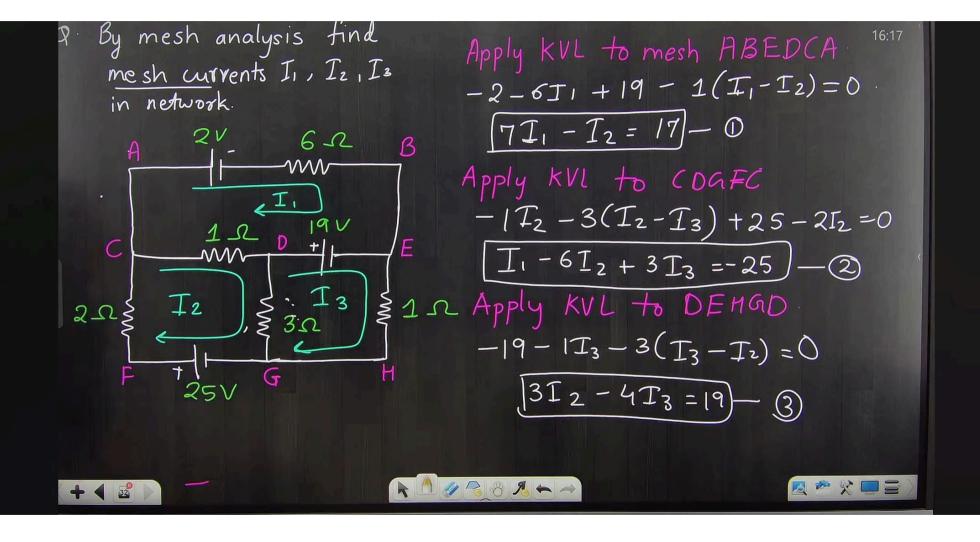




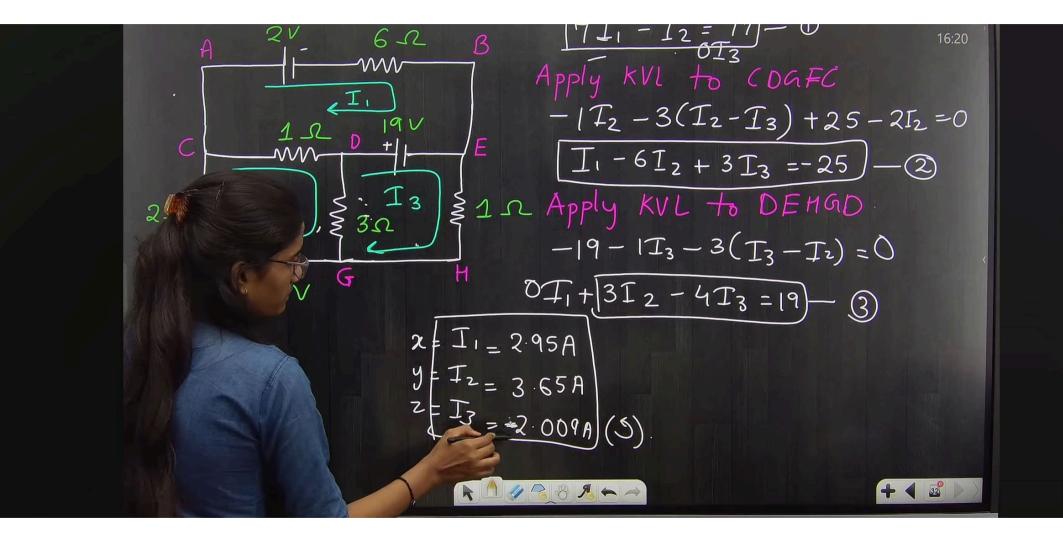




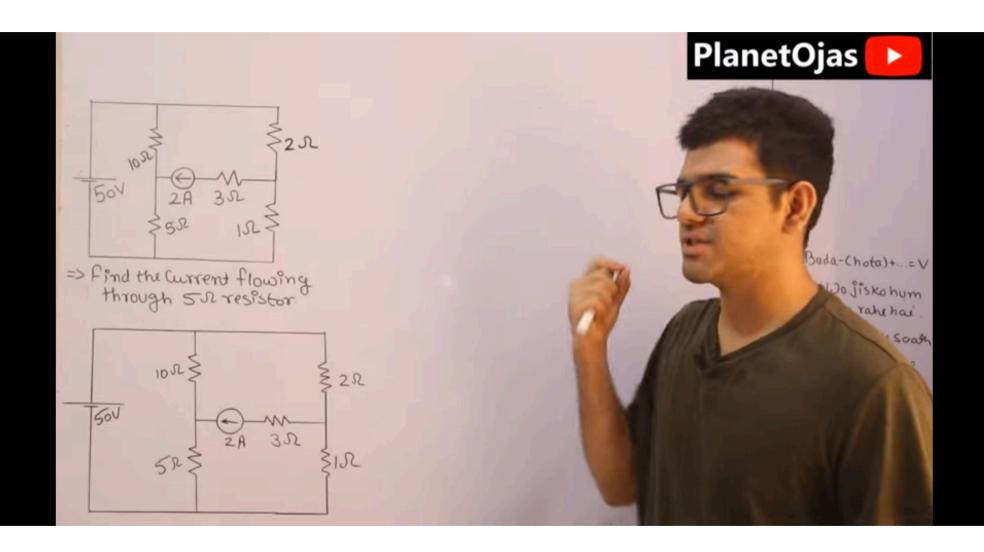




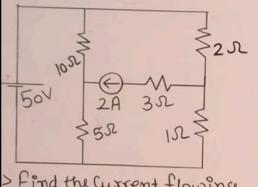




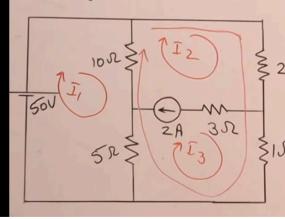








> Find the Current flowing through 500 resistor.



Applying Kuldo Moshi

$$10(I_1-I_2)+5(I_1-I_3)=50$$
  
 $10I_1-10I_2+5I_1-5I_3=50$ 

Mesh 2 and Mesh 3 shares a common current source and it forms a supermesh writing current equation for supermesh

Applying kul to supermesn

$$|0(I_2-I_1)+2I_2+|I_3+S(I_3-I_1)=0$$

$$|0I_2-10I_1+2I_2+|II_3+5I_3-5I_1=0$$

$$-|SI_1+|2I_2+6I_3=0-3$$

I,=20A Iz=17:33 A Iz=15:33 A
The current flowing through 52 resistor=I,-Iz=4.67A

No (Buda-(hota)+..=V

Bada: Wo jisko hum

ghuma rahi hai

Chota: Wo jiske sowh

bada bed share

Karraha hai