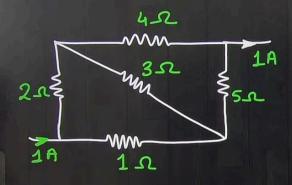
## When circuit is complete, use KVL When circuit is open, use KCL

By using Kirchhoff's laws, calculate branch currents in the circuit



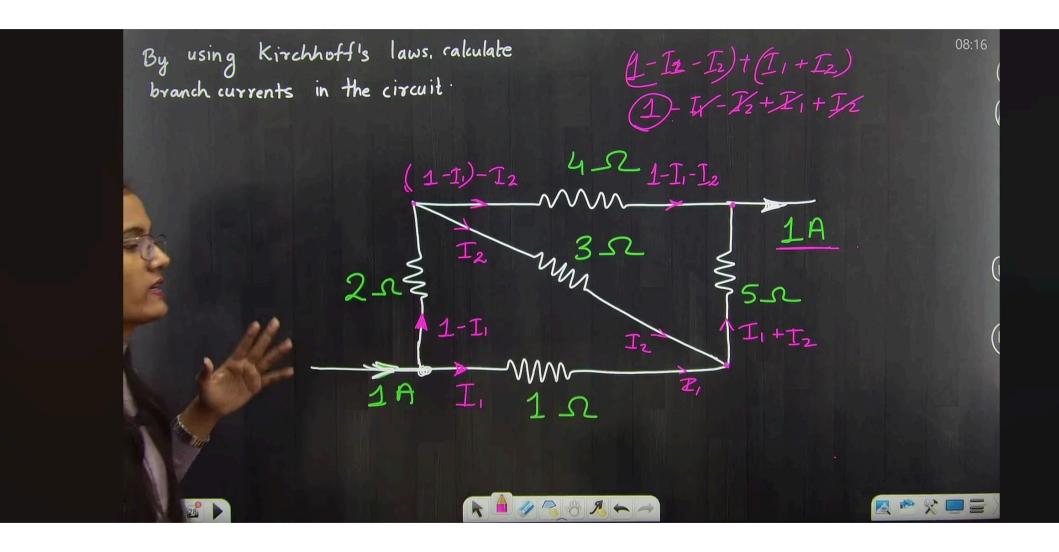
mesh wise () Assume direction to apply KNL Assume proper currents



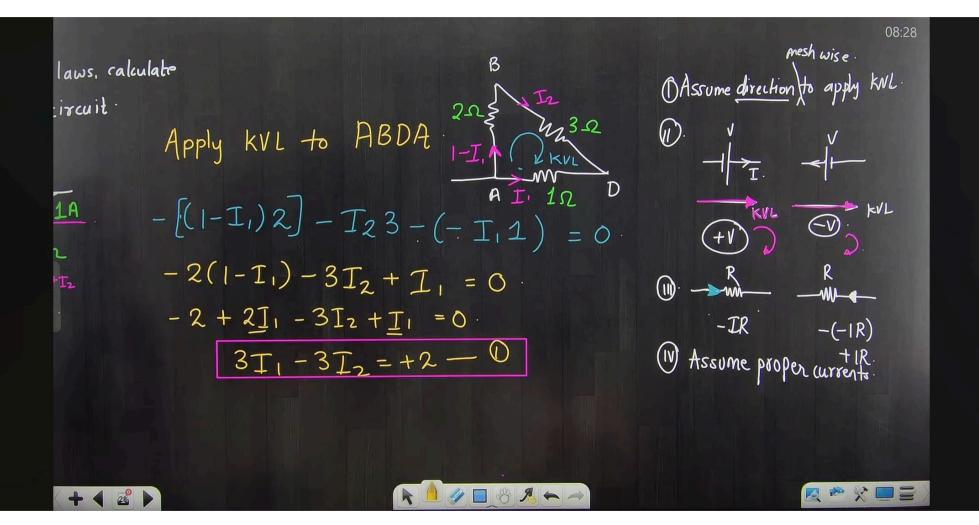
ACADEMY



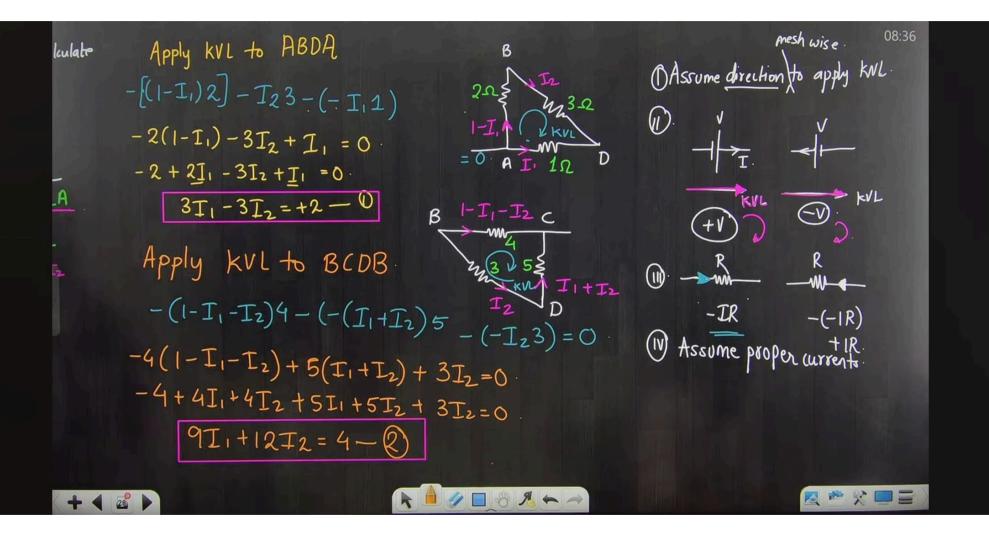




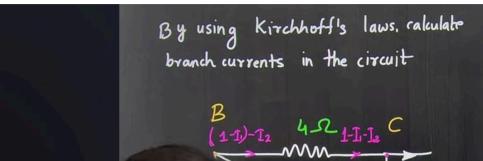




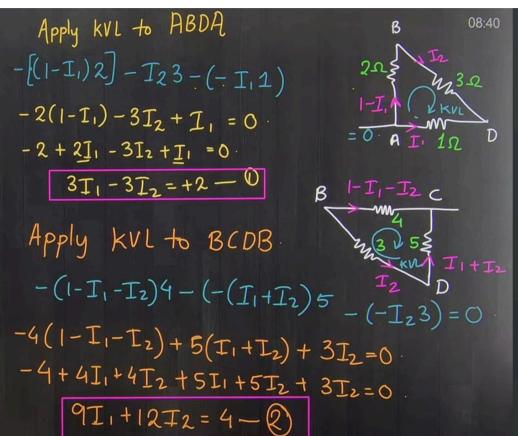
S ACADEMY







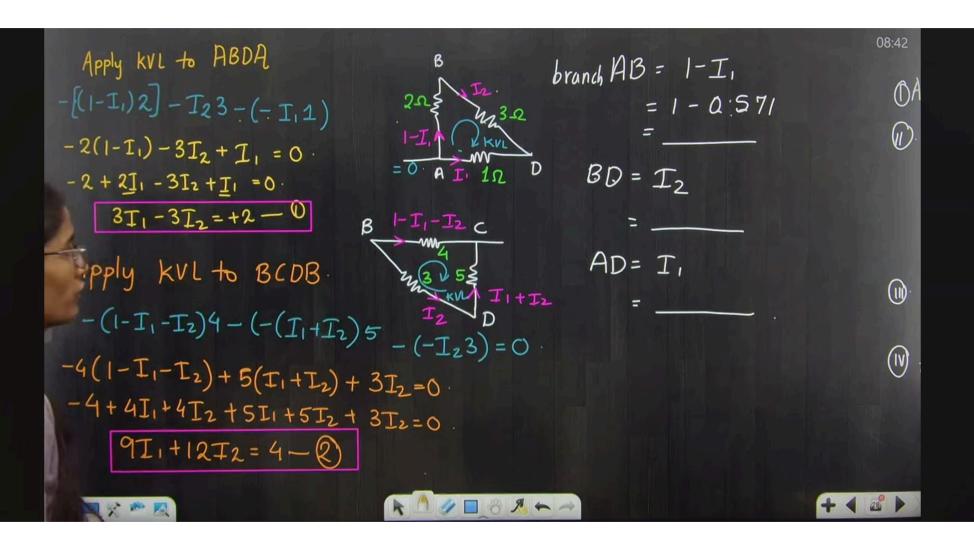
$$x = T_1 = 0.571$$
 $y = T_2 = -0.095$ 



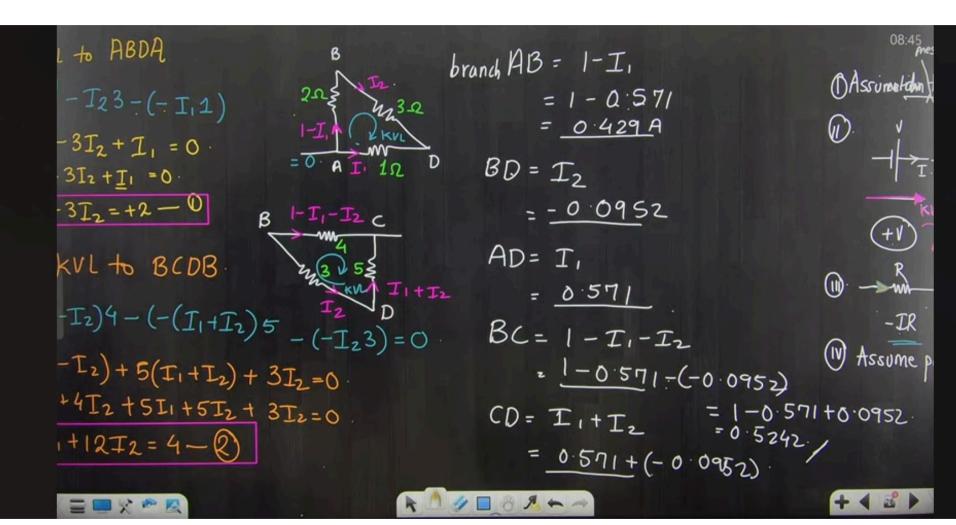








ACADEMY





By using kirchhoft's law calculate current in branch.

Apply KVL to mesh ABDA

$$+35 - 3I_1 - 2(I_1 + I_2) = 0$$

$$-3I_1 - 2I_1 - 2I_2 = -35$$

$$-5I_1 - 2I_2 = -35 - 0$$

Apply KVL to mesh BCDB:

$$4I_2 - 40 + 2I_1 + 2I_2 = 0$$





