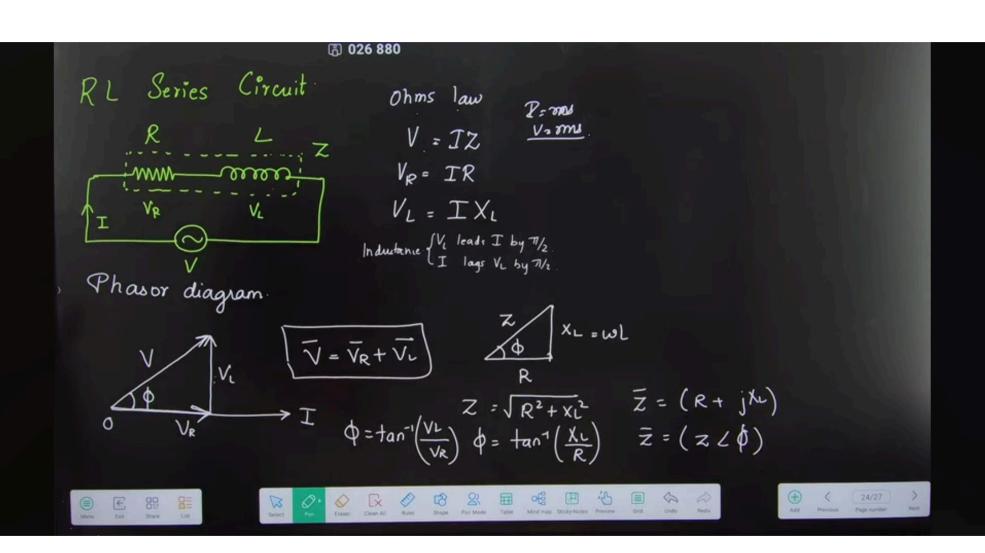
周 551 168 AC Circuits -> Resistance, Inductance and Capacitance -> Addition of current and voltage requires phase difference \rightarrow Phase angle (ϕ) nature of circuit [Resistive, inductive, capacitive] circuit impedance power consumed





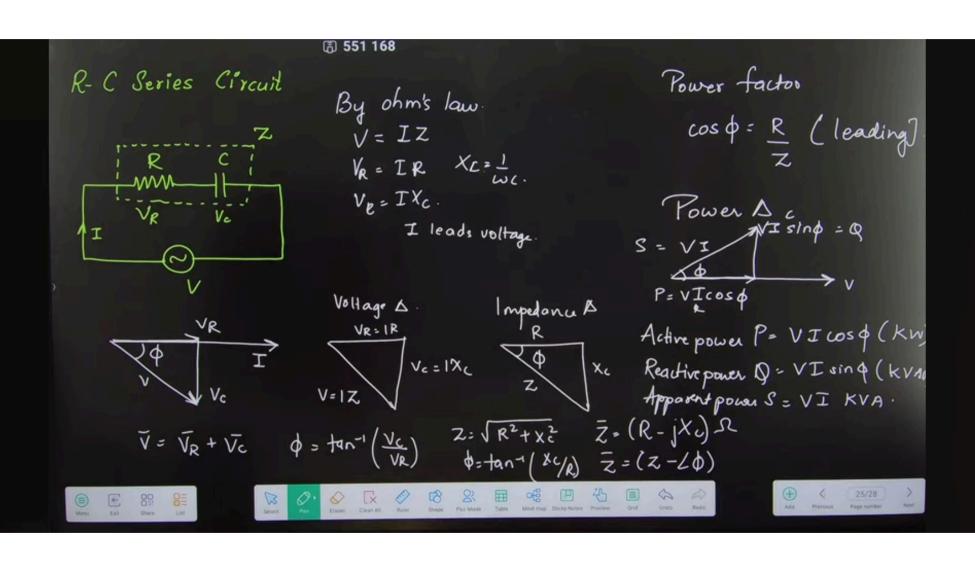


grados. cos \$ = R [lagging]

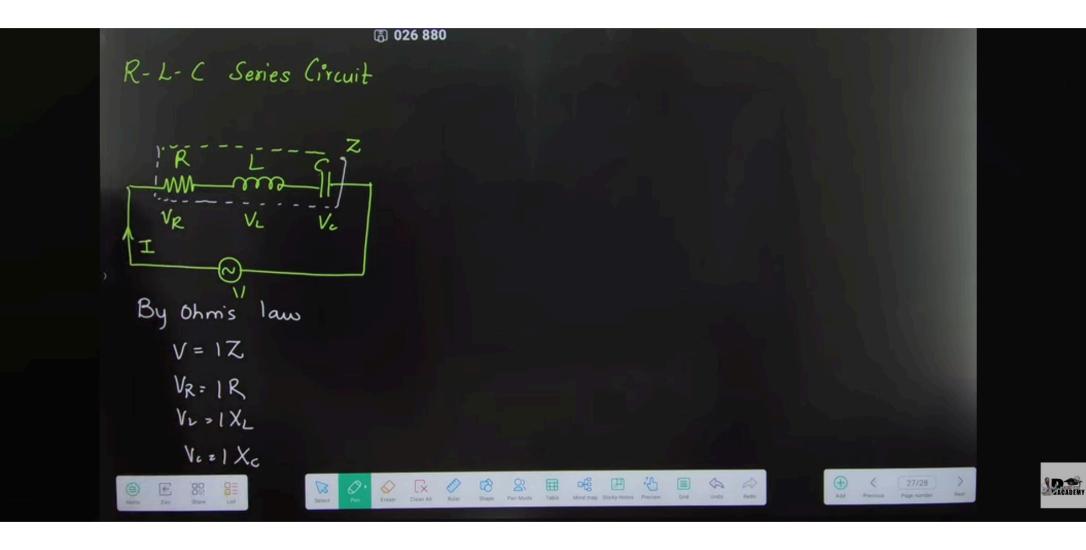
J Cos p

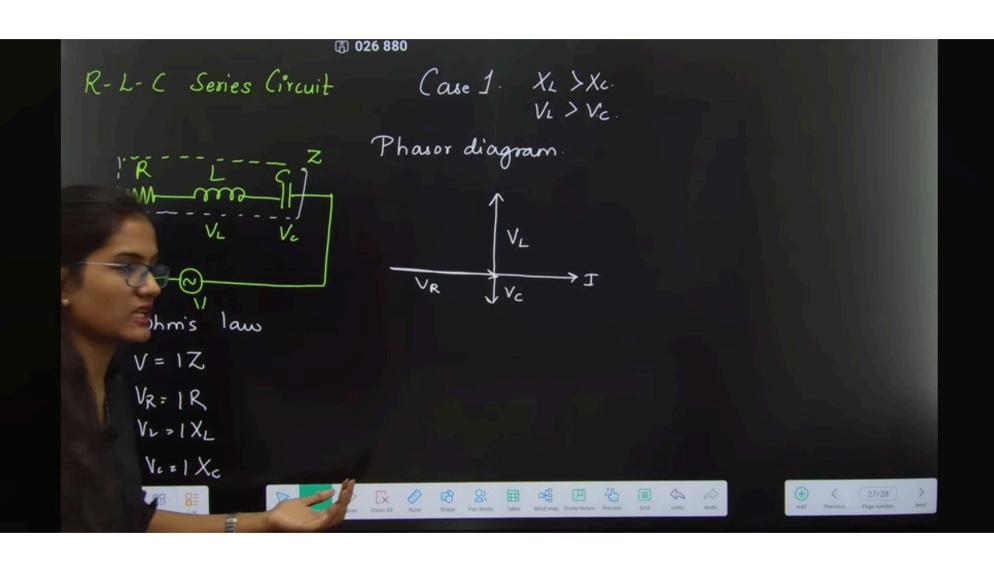
Active power (Consumable) = VXI coso Reactive power = VXI sind Apparent power = VXI.

wL

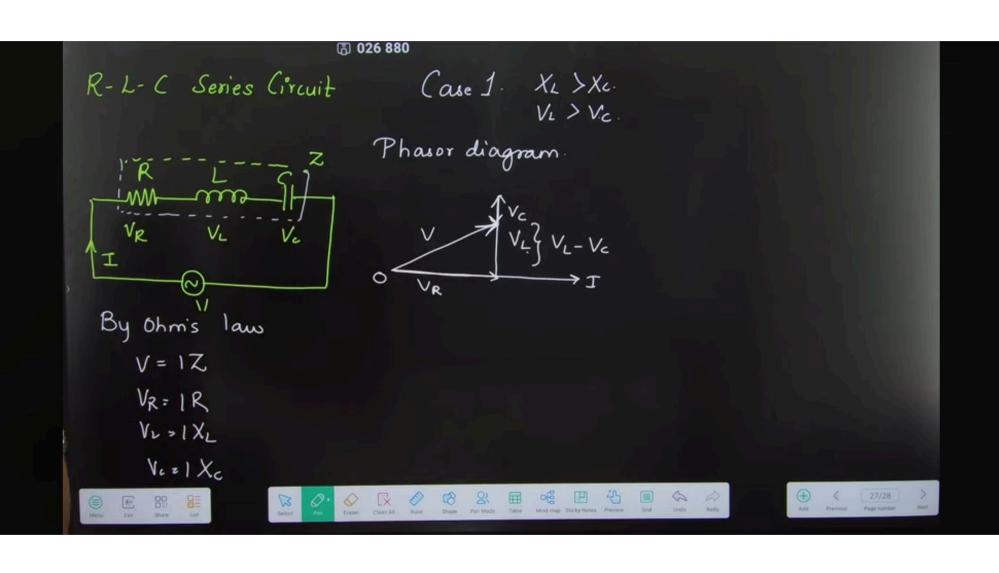




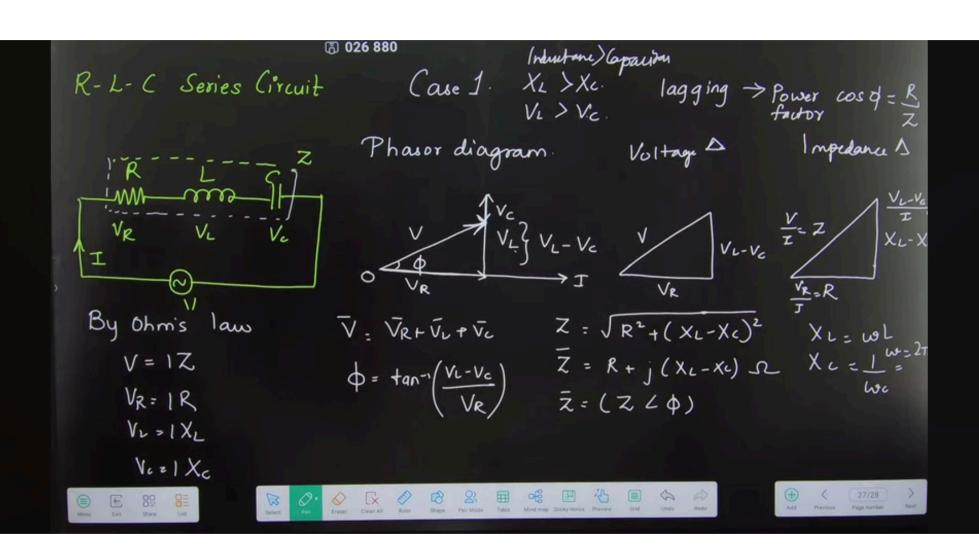




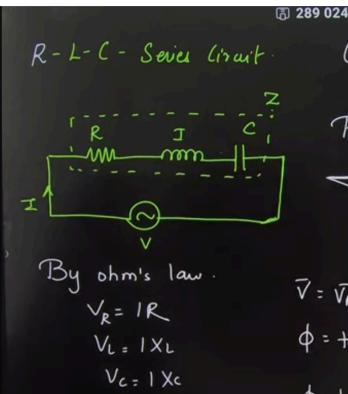




ACADEMY



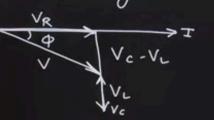




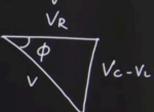
V=12

Power factor cos \$ = R leader

Phasor diagram



Voltage D



Impedance 12
Vie = R
Vo

$$\nabla = \sqrt{R} + \sqrt{L} + \sqrt{L}$$

$$\nabla = \sqrt{R^2 + (X_C - X_L)^2}$$

$$\Phi = \frac{1}{4} \ln^{-1} \left(\frac{V_C - V_L}{V_R} \right) \qquad \overline{Z} = R - \int (X_C - X_L) \Omega$$

