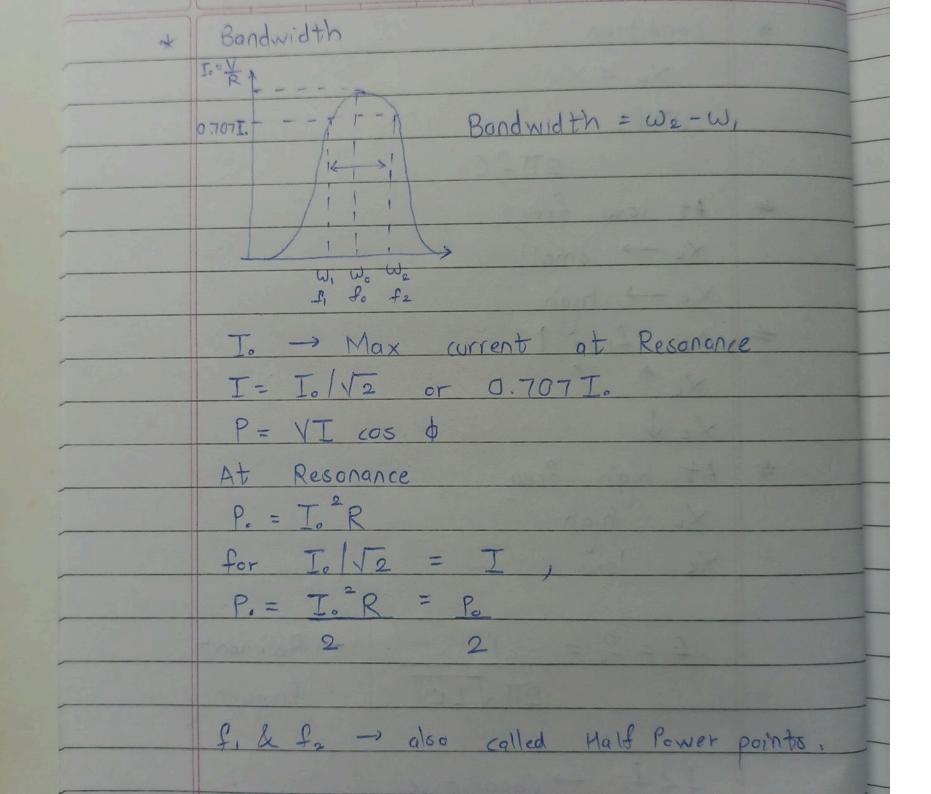
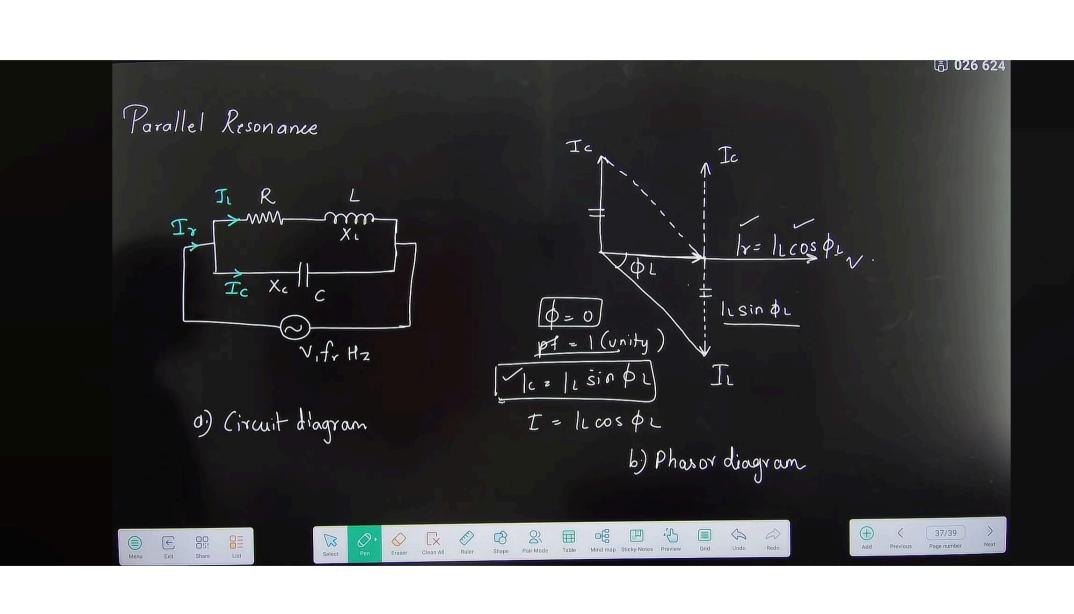
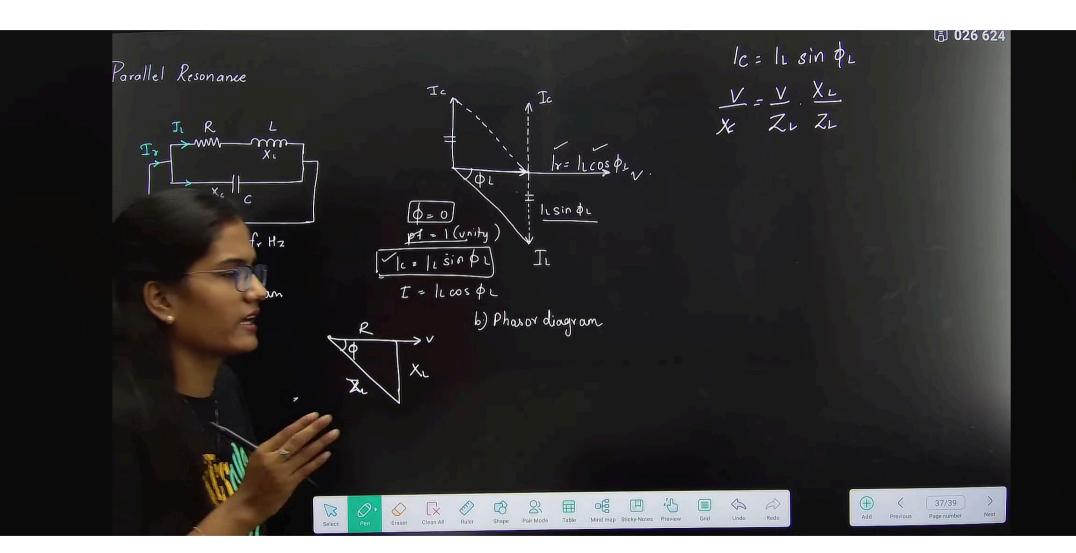
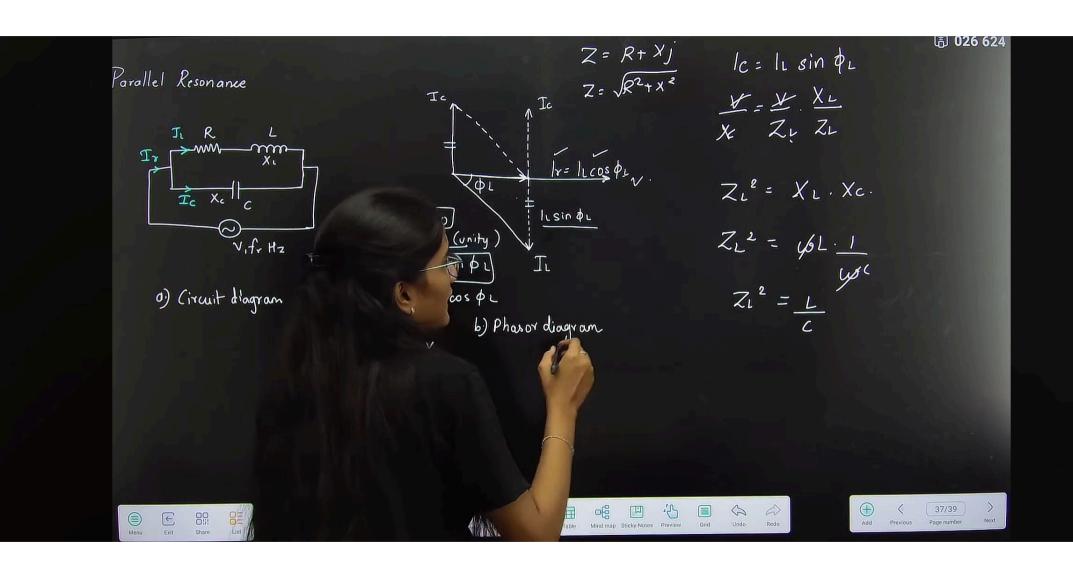


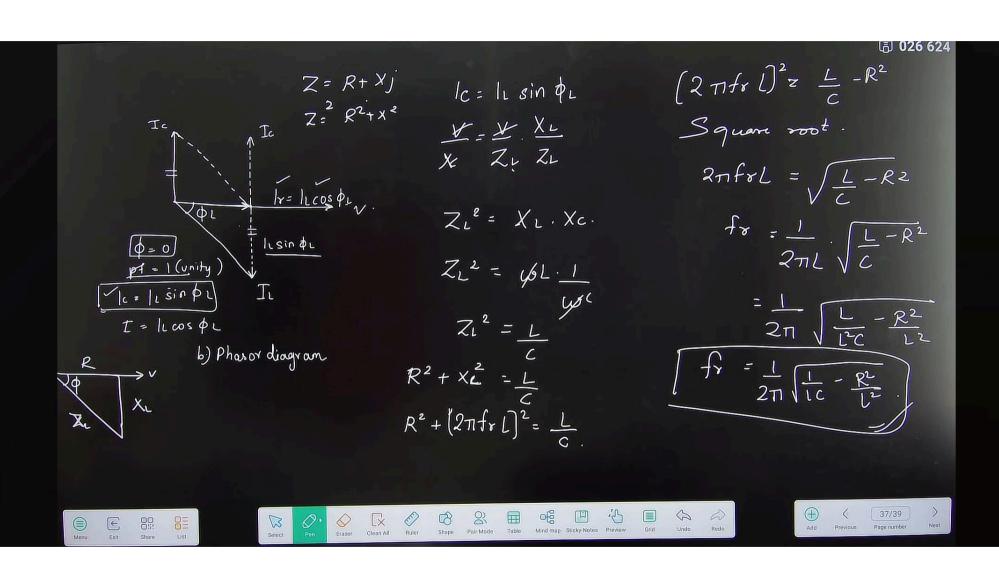
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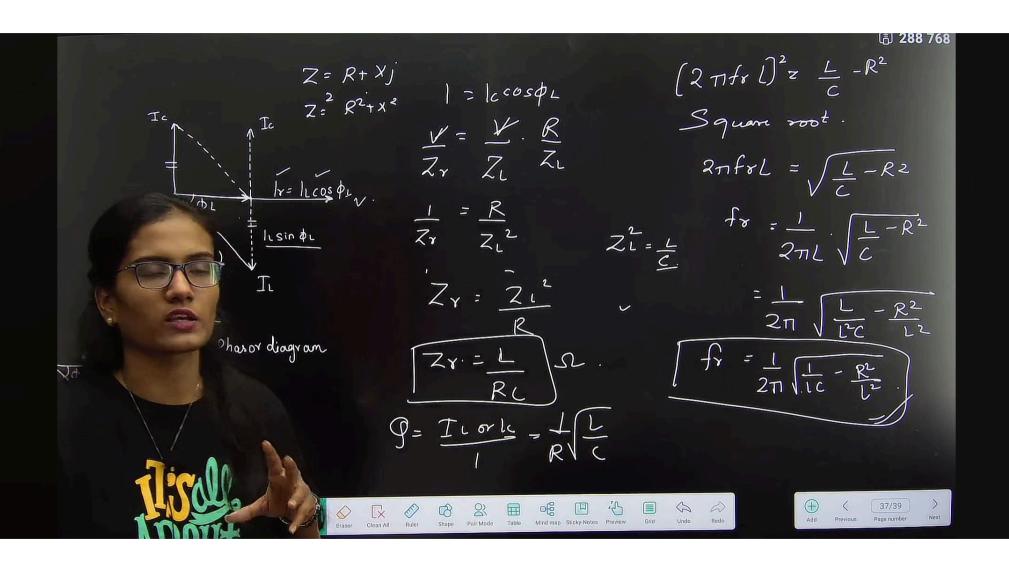


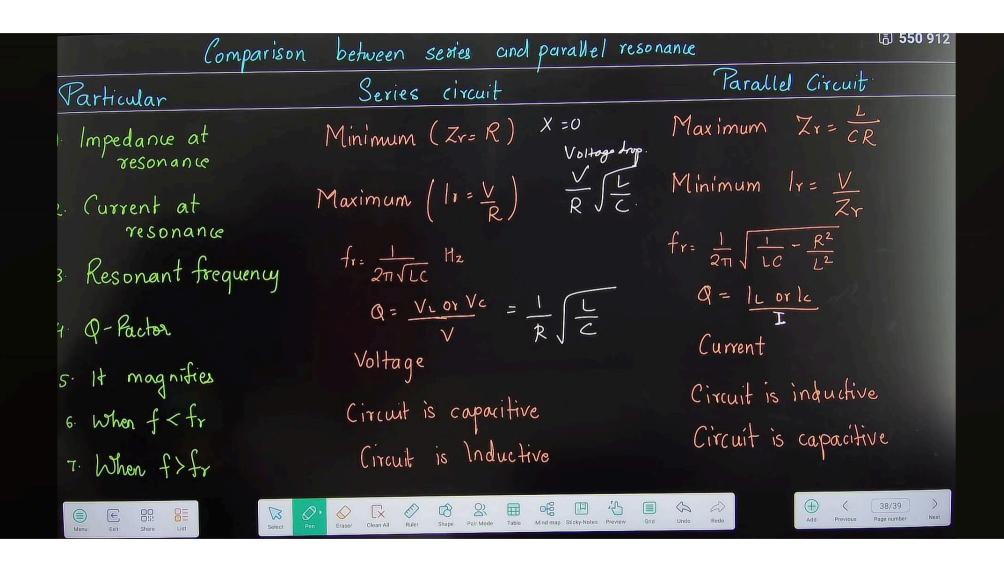












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Q A parallel circuit consists of a 2.5 yf capacitor and a will whose resistance and inductance are 1524 260 mH. Determine the resonant frequency, Q factor Q factor of the circuit at resonance of dynamic impedance.

Given data: $C = 2.5 \times 10^{-6} F$. R = 15.2

L = 260 x 10-3 H

Resonant frequency = $\frac{1}{2\pi} \left[\frac{1}{LC} - \frac{R^2}{2} \right] = \frac{1}{260 \times 10^3} \times \frac{15)^2}{260 \times 10^5}$ P factor = $\frac{1}{R} \left[\frac{L}{C} \right] = \frac{197.19 \text{ Hz}}{260 \times 10^{-3}}$ = $\frac{1}{15} \left[\frac{260 \times 10^{-3}}{2.5 \times 10^{-6}} \right] = \frac{21.49}{21.49}$



























