Unit 2 Lesson 9 . For an RLC circuit of the form Vin

, where Vx is the voltage drap or ross k; we have I is the current of the circuit,

Lis inductance

Kis restrance

cis capacitance

Vin is voltage in put

alt) is the charge on the condition, etc.

. We have

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. We for aregiven a few DEs extracted from this scenarioi

for

$$P(d) V_c = \frac{1}{c} \dot{V}_{in}$$

Example Probem

By experimentation with the mathlety it seems that
confact tance to the range of 50 uf puts inductance and
Vo in Phase.