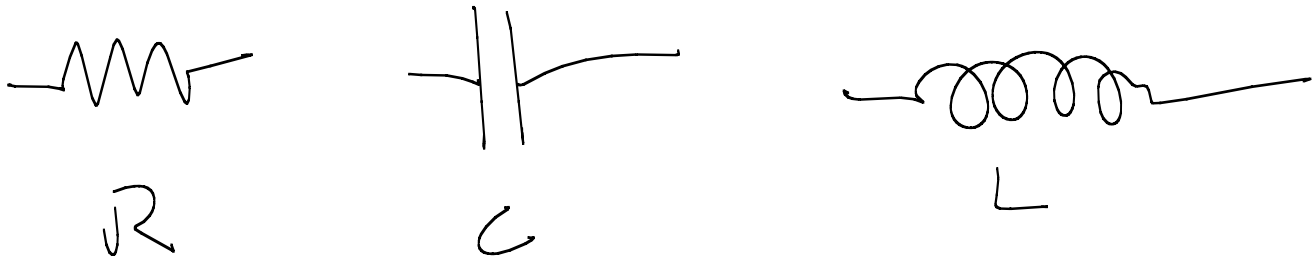
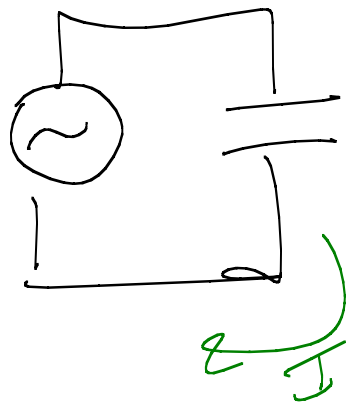
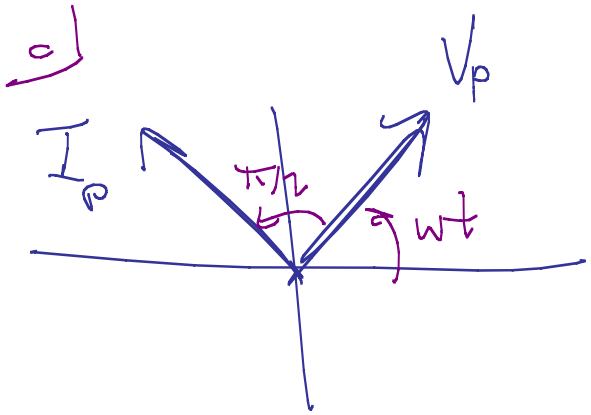
Phys 2120-4 10/29/12

Note Title 10/29/2012

Recap:

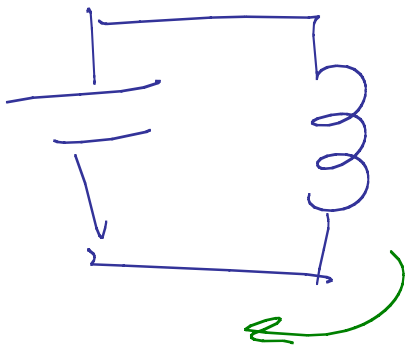




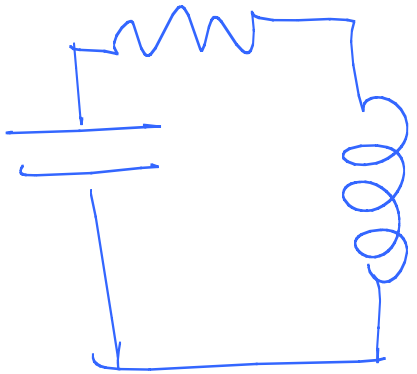


$$I_p = \frac{V_p}{1/\omega C}$$

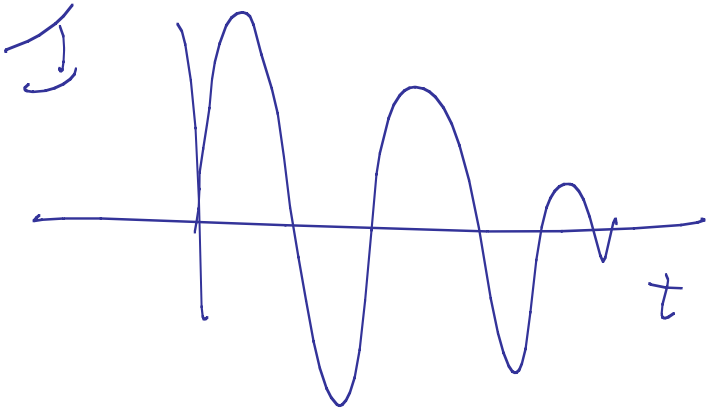
$$X_C = \frac{1}{\omega C}$$



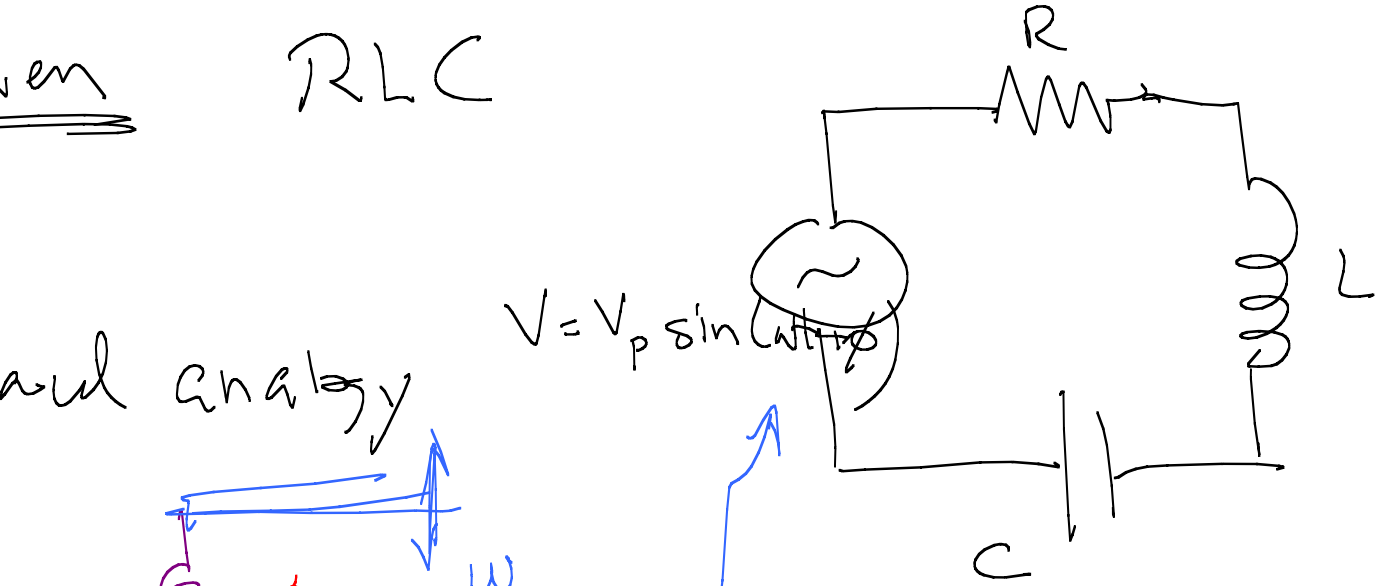
$$\omega = \frac{1}{\sqrt{LC}}$$



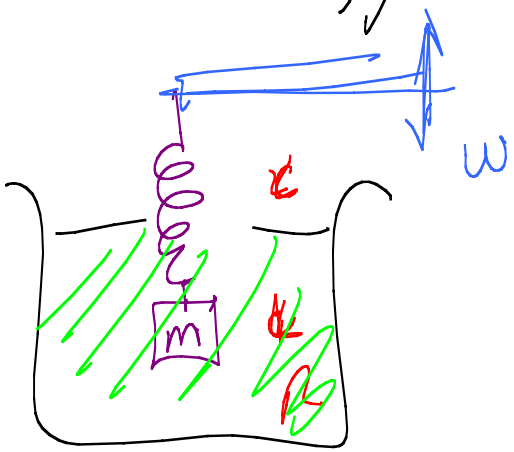
Damped oscillation.



Driven RLC



Mechanical analogy



ω

$\omega_0 = \frac{1}{\sqrt{LC}}$

Phasor $\longrightarrow I_p(t)$, V