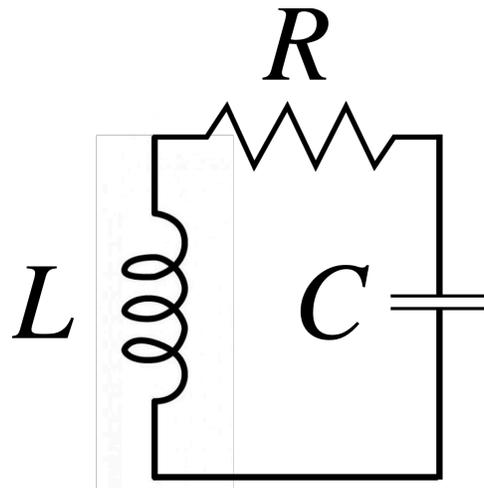# PHYS2063 Wave Physics Homework #3 Due Thursday 1 Sep 2022

This homework assignment is due at the start of class on the date shown. You may submit a PDF of your solutions to the Canvas page for the course, or bring a paper copy to class.

We now add a resistor R to our series circuit of an inductor and capacitor:

The voltage drop across a resistor with a current I flowing through it is IR. Note that unlike inductors and capacitors, resistors do not store energy.

Use this information, and what you've already done, to find the rate at which energy is dissipated by the resistor, in terms of I and R. You will almost certainly recognize the answer from your introductory physics course.