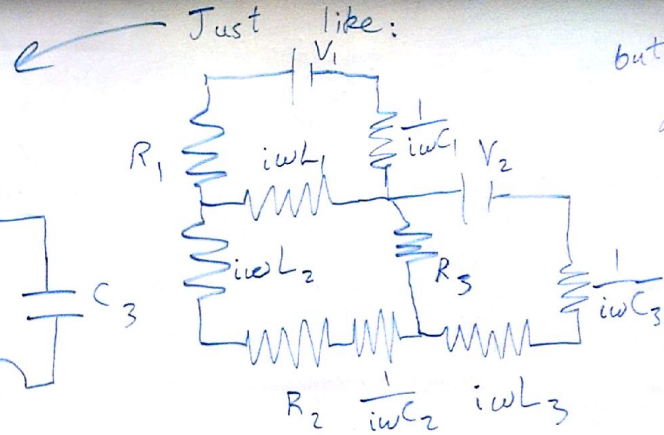
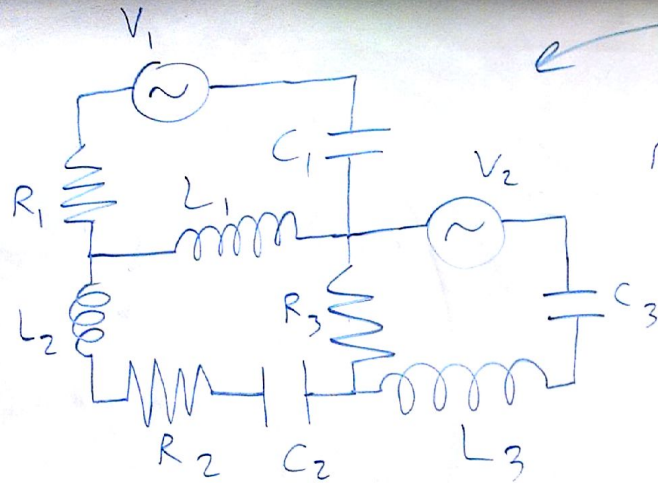


book's Z is
 $|Z| = \sqrt{a^2 + b^2}$



but battery voltages become ac
 and some "resistances" are
 now complex #'s.

The circuit can be understood
 with Kirchoff's rules.

But use I_{rms} , V_{rms} .