EC_Week 11, Non-assessed

A series LCR circuit with L = 10 mH, C = 2 μ F and R = 5 Ω is driven by a generator with an amplitude of 100 V and variable angular frequency ω . Find

- (a) the resonant frequency ω_0 and
- (b) the rms current at resonance.
- When ω is 8000 rad/s find (c) the impedance Z,
 - (d) the rms current.