## [lex205] AC circuits III

Consider the three AC circuits shown with the following specifications (as defined in [lam28]): $V_{\mathcal{E}}=15 \mathrm{~V}, \omega=11 \mathrm{rad} / \mathrm{s}, R=2 \Omega, L=0.17 \mathrm{H}, C=0.07 \mathrm{~F}$. The circuits are discussed in [lam28] as cases \#4 (left), \#5 (center), \#6 (right).
For each case determine the current amplitude $I_{\mathcal{E}}$ in the power source, the current amplitudes $I_{R}^{\max }, I_{L}^{\max }, V_{C}^{\max }$ in each device, and voltage amplitudes $V_{R}^{\max }, V_{L}^{\max }, V_{C}^{\max }$ across each device.

Express all results in SI units.


## Solution:

