Definition

Text Book - Chapter 4 – Problem No. 28
In this part you should solve this problem manually, then plot the output curve versus time or $\omega$ (I mean $v_o(t)$, $i_o(t)$, $v(i)$ or $|H(j\omega)|$ or any desired curve(s) of the problem) using mathematical programs such as MATLAB or MAPLE. After that you should simulate the problem using PSpice program and then plot the output curve versus time or $\omega$. Finally you should compare the resulted curves and show that they are the same.
Note that in the problems in which $|H(j\omega)|$ is desired, you should determine $\omega$-3db frequencies (in PSpice, MATLAB and manual solution, this is relevant to Chapter 7 topics).

Report

Write a proper report and include the following items:

2) Plot of curves that resulted from MATLAB.
3) Plot(s) of PSpice schematics (with Bias points details, e.g. voltages and currents).
4) Plot(s) of PSpice curves.
5) Comparison of your results.

If you have serious problem with PSpice, MATLAB or manual solution, send a message (to mstalebi@gmail.com) and explain your problem.

Good Luck.
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