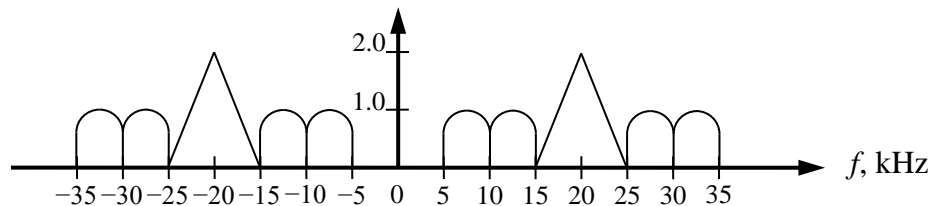


Selected Answers to Graded Problems in HW #1

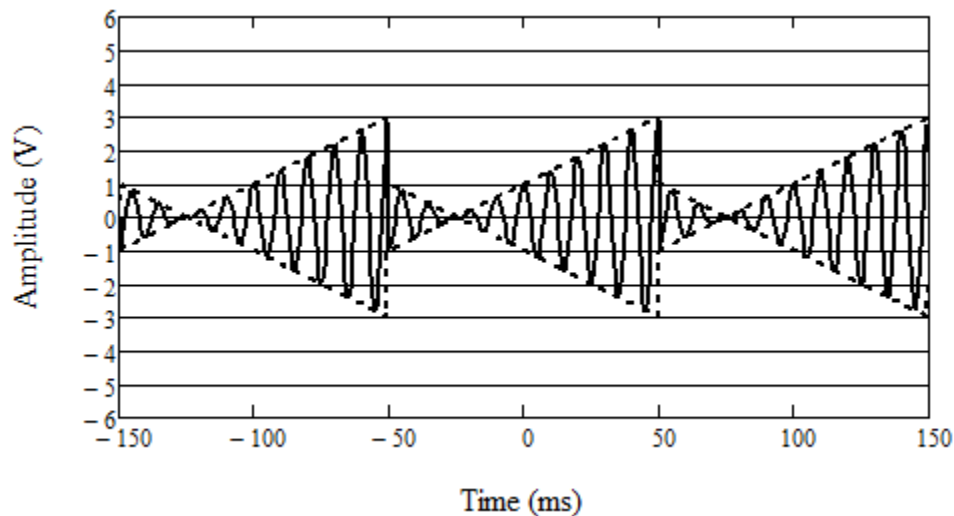
Remember to explain all answers in your solutions. You will not receive credit for merely repeating an answer given here. If an answer is not given below, it is either because the solution is trivial or because disclosure of the answer would reveal too much of the solution to the problem.

If you suspect that an answer below is incorrect, please let me know as soon as possible.

1. [proof]
2. [proof]
3. a. spectrum at point c [spectra at points a and b not shown]; you must explain why:



- b. 35 kHz
4. a. [answer not given]
 - b. [answer not given]
 - c. The sketch for the $\mu = 2$ case ($f_c = 100$ Hz arbitrarily chosen):



- d. [answer not given]