

Instruction: Hand in your work with name and code to my desk by 10.00 am. of the due date. DO NOT copy homework from your classmates or lend it to others. Anyone who violates this regulation will be given -10 for the homework.

1. Find the Fourier Transform of the signal $f(t)$ in Fig. 1 (a) and (b). (10 points)

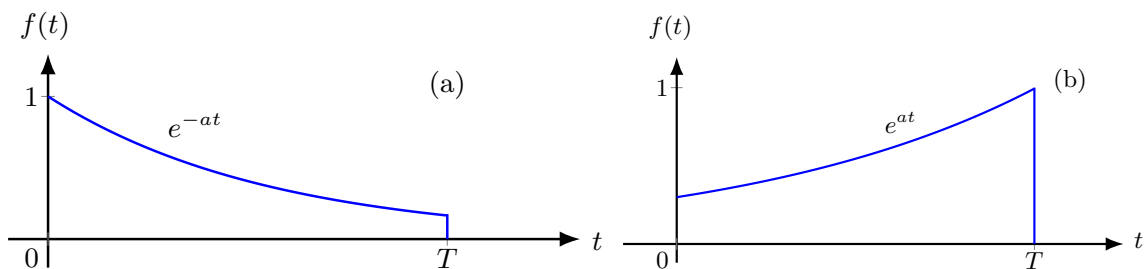


Figure 1: Problem 2

2. Find the inverse Fourier transforms of the spectra in Fig. 2 (a) and (b) (10 points)

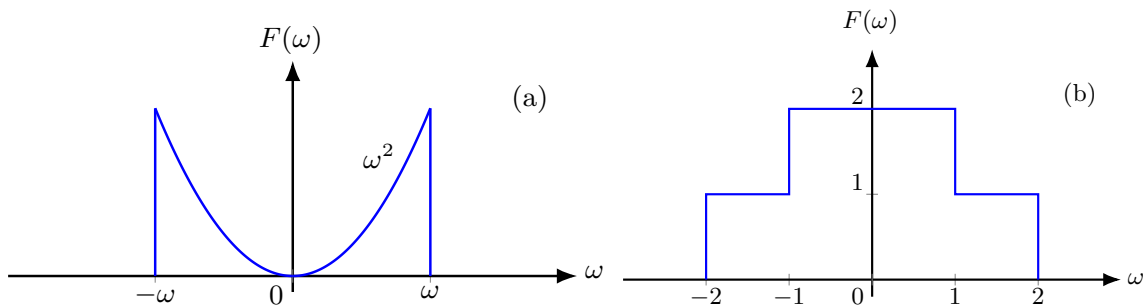


Figure 2: Problem 3