ECS 332: Quiz 1 solution

Instructions

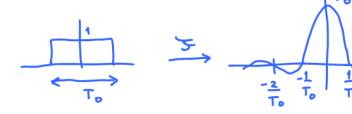
- 1. Separate into groups of no more than three persons.
- 2. Only one submission is needed for each group. Late submission will not be accepted.
- 3. Write down all the steps that you have done to obtain your answers. You may not get full credit even when your answer is correct without showing how you get your answer.

Name	ID
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- 4. Do not panic.
- 1. (Course Organization) When is/are Aj. Prapun's office hour(s)?

2. (Fourier Transform) Let $g(t) = 1[-1 \le t \le 1]$. Plot |G(f)|.

We have seen in class that



Here, $T_0 = 2$ $|G(\neq)|$ $-2 \frac{-1}{2} - 1 - \frac{1}{2} = \frac{1}{2} + \frac{3}{2} = 2$

3. (Fourier Transform) Let $x(t) = 1[2 \le t \le 4]$. Plot |X(f)|.

same width as in Q2

ce(t) = g(t) time -shifted by 2. =g(t-t₁) where $t_1=2$. $f(f)=e^{-j2\pi ft_1}$ G(f)

