## ECS 332: Exercise Solution

## Instructions

- 1. Separate into groups of no more than three persons.
- 2. The group cannot be the same as your former group.
- 3. Only one submission is needed for each group.
- 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.
- 5. Do not panic.

Consider a continuous-time signal g(t) whose Fourier transform is plotted below.



 $\int_{C}^{U \text{ sing similar triangle}} \frac{1}{2} = \frac{h}{C} \Rightarrow h = \frac{1}{2} \times C = 3$ 

Note: The sum of two straight lines is also a straight line.  $(a, f+b,)+(a, f+b_{z})$   $a(a, +a_{z}) f+(b_{z}+b_{z})$ So it is sufficient to simply look at their sums at the two boundaries and connect them using straight line.

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