ECS 332: In-Class Exercise # 2 solution

Instructions

- 1. Separate into groups of no more than three persons. The group cannot be the same as any of your former groups.
- 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.
- 3. Do not panic.
- 1. Consider each g(t) defined below.
 - Let G(f) be its Fourier transform. Plot G(f) from f = -4 to f = 4 Hz.





2. Signals x(t), y(t), and z(t) are plotted below.



Suppose $y(t) = c_1 x (c_2 t + c_3)$ and $z(t) = c_4 x (c_5 t + c_6)$.

Find the values of the constants c_1, c_2, c_3, c_4, c_5 , and c_6 :

$$c_{1} = \underbrace{2}_{c_{1}}, c_{2} = \underbrace{2}_{c_{3}}, c_{3} = \underbrace{0}_{c_{4}}, c_{4} = \underbrace{1/2}_{c_{5}}, c_{5} = \underbrace{2}_{c_{6}}, c_{6} = \underbrace{-2}_{c_{6}}, \underbrace{-\frac{1}{2}\alpha(2)}_{c_{6}}, c_{6} = \underbrace{-2}_{c_{6}}, c_{6$$

$$\begin{array}{c}
C_{5} + C_{6} = 0 \\
\hline
Point \ b: \\
C_{5} t + C_{6} \\
t = 5 \\
5 \\
C_{5} - C_{5} = 8 \\
C_{5} = 2 \\
C_{5} = 2 \\
C_{6} = -C_{5} = -2
\end{array}$$

shift $\frac{1}{2}e(2t)$ to the right

Date: 2 4 / 0 8 / 2018			
Name	ID (last 3 digits)		
Prapun	5	5	5