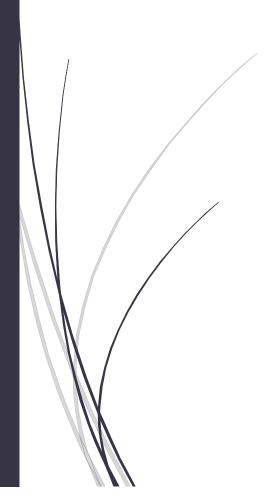
7-5-2021

## Examen 1

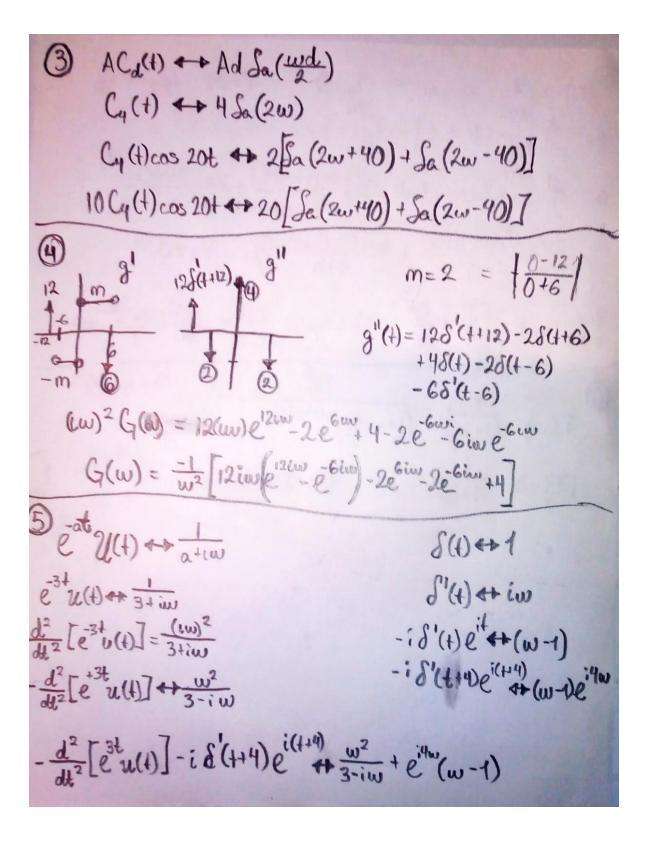
Martínez Coronel Brayan Yosafat



$$\begin{array}{lll}
\text{T=6} & \omega_0 = \frac{\pi}{3} \\
\text{x(t)} &= \begin{cases} \frac{1}{2} & -3 < t < 2 \\
\frac{1}{2} & -2 < t < 0 \\
\frac{1}{2} & 0 < t < 2 \\
1 & 2 < t < 3 \end{cases} & \alpha_0 &= \frac{1}{2} \int_{1}^{2} \int_{1}^{$$

Lo que se ve con flash dice:

$$\chi(t) = \frac{2}{3} + \sum_{n=1}^{\infty} \frac{3}{n^2 \pi^2} (\cos(\frac{2n\pi}{3}) - 1) \cos(\frac{n\pi t}{3})$$



$$F(w) = \frac{1}{(1+iw)^2} = \frac{10^0}{(1+w^2)e^{2arctan(w)}} = \frac{1}{1+w^2}e^{2arctan(w)}$$

$$|F(w)| = \frac{1}{1+w^2}$$

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