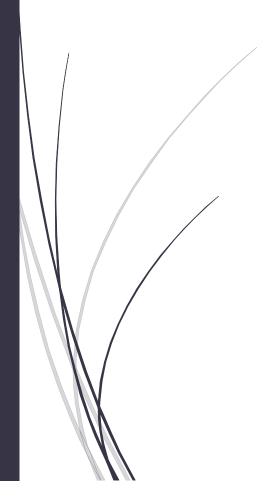
29-3-2021

## Evidencia 1.8

Martínez Coronel Brayan Yosafat



$$F(w) = \int_{-\infty}^{\infty} f(t) e^{-iwt} dt = 0 + 2\int_{-\infty}^{\infty} e^{-iwt} dt + 0$$

$$= 2 \frac{e^{-iwt}(-iwsent-\cos t)}{-w^2 + 1} \int_{0}^{\pi} = 2 \frac{e^{-iw\pi} + 1}{-w^2 + 1}$$

$$= \frac{2(+12e^{-iw\pi})}{-w^2 + 1} = \frac{2}{-w^2 + 1} \left[\cos(w\pi) - i\sin(w\pi) + 1\right]$$

$$= \frac{2}{-w^2 + 1} \sqrt{(\cos(w\pi)^2 + \sin^2(w\pi)^2 + \sin^2(w\pi)^2 + \sin^2(w\pi)^2 + \cos^2(w\pi)^2 + \cos^$$

