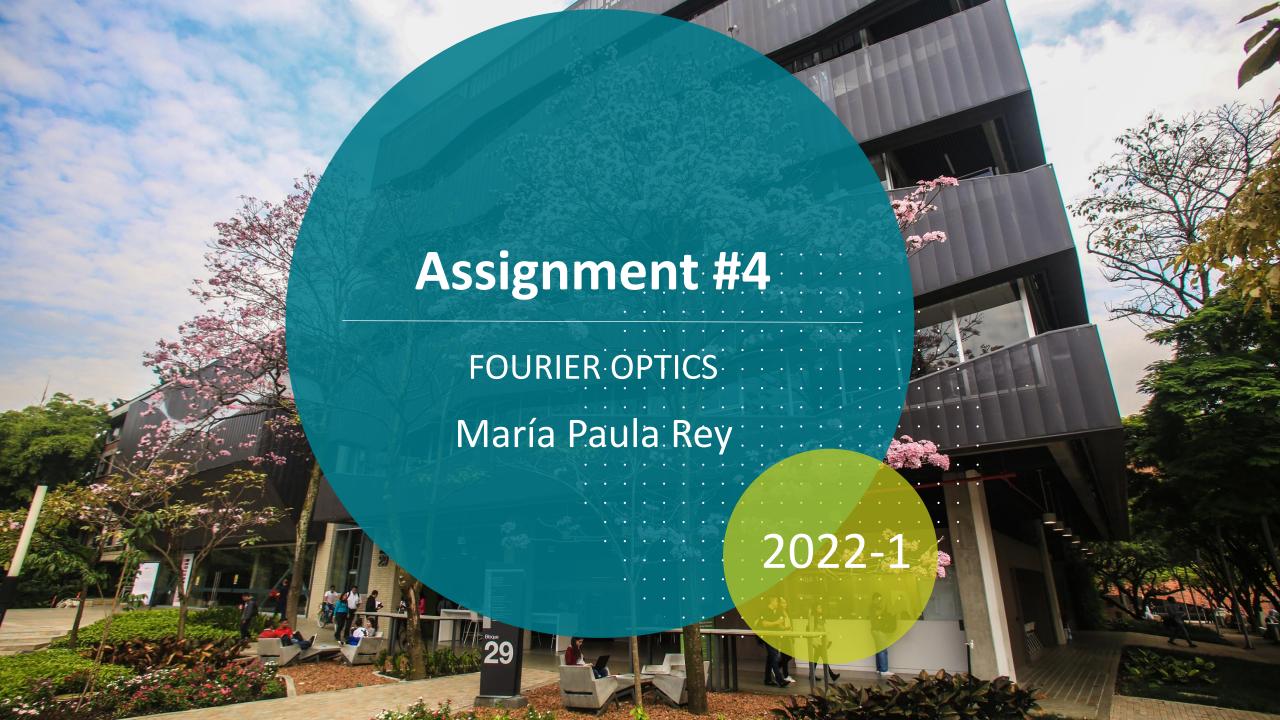
Inspira Crea Transforma





Fourier basis functions

$$\psi_n(t) = e^{i2\pi n v_o t}$$

$$egin{align*} \langle e^{inx}, e^{inx}
angle &= \int_0^{2\pi} e^{inx} e^{-inx} dx = \int_0^{2\pi} e^0 dx = 2\pi \ &\langle e^{inx}, e^{imx}
angle &= \int_0^{2\pi} e^{inx} e^{-imx} dx = \int_0^{2\pi} e^{i(n-m)x} dx = \ & -i[e^{i2\pi(m-n)} - 1] \over m-n = \frac{-i[\cos(2\pi(m+n)) + i\sin(2\pi(m+n)) - 1]}{m-n} = 0 \end{aligned}$$

Gracias

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