## Founier Transforms

$$f(x) = \sum_{n=-\infty}^{\infty} c_n e^{in\pi x}$$

$$K_n = n\tau$$

$$f(x) = \sum_{n=0}^{\infty} \left(\frac{L}{\pi} G\right) e^{ik_n x} \Delta k$$

limiting cons if flow nut prembolic Let L-100 Dh - infinelismed f(x) = 500 Lan eiky olx f(x) = 1 [ e + (x) dr]e : hy

dx

Fourier Transform Pair Function of Fourier Transform Pair Function f(k)F.T.  $f(k) = \int_{-\infty}^{\infty} e^{-ikx} f(x) dx$ invert  $f(x) = \frac{1}{27} \int_{-\infty}^{\infty} f(k) e^{-ikx} dx$ transform