





$$f\omega = |x| = \frac{e_0}{2} + \sum_{k=1}^{\infty} o_k co(k)$$

$$Q_{k} = \frac{1}{\pi} \int_{\pi}^{\pi} |x| \cos(kx) dx = \frac{3}{\pi} \int_{0}^{\pi} x \cos(kx) dx$$

$$k=0$$
 $\frac{2}{\pi}\int_{0}^{\pi} x \, dx = \frac{2}{\pi} \frac{x^{2}}{\sqrt{n}} = \frac{2}{\pi} \frac{\pi^{2}}{\sqrt{n}} = \pi = 0.$

$$k \neq 0 \qquad \stackrel{?}{=} \qquad \int_{0}^{T} x \operatorname{col}(\omega) dx = \frac{2}{\pi} \left[\begin{array}{c} x \operatorname{min}(\omega) \\ x \operatorname{min}(\omega) \end{array} \right] = \frac{1}{\pi} \left[\operatorname{con}(k\pi) - \operatorname{col}(\omega) \right]$$

$$= -\frac{2}{\pi} \frac{1}{k} \left(\operatorname{con}(k\pi) \right) \left[\begin{array}{c} 1 \\ 0 \end{array} \right] = \frac{2}{\pi} \left[\operatorname{con}(k\pi) - \operatorname{con}(\omega) \right]$$

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Supportano
$$\int f(t) dt = \int f(t) dt \quad \text{Esists} \quad \int |f(t)| dt < + \infty$$
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$$\left| \frac{1}{e} \int_{e}^{e} f(\theta) dt \right| \leq \frac{1}{e} \int_{e}^{e} f(\theta) dt = 0$$

$$\frac{1}{T} \sum_{k=1}^{\infty} \frac{1}{e} \int_{-e}^{e} f(t) \cos\left(\frac{k\pi}{e} \left(t-x\right)\right) dt$$

$$F(\overline{s}) = \frac{1}{\pi} \int_{-\epsilon}^{\epsilon} \ell t dt \quad \text{on } [\overline{s}(t-x)] dt \qquad \overline{s} \in \mathbb{R}$$

$$T_k = k \underline{r}$$
 $\Delta T = \underline{T}$

$$f(x) = \frac{1}{\pi} \int_{0}^{\infty} d\zeta \int_{-\infty}^{\infty} \ell(t) \cos(\zeta(t+x)) dt$$

$$f(x) = \int_{0}^{\infty} Q_{x} \cos(3x) + b_{y} \sin(3x) d3$$

$$\int_{0}^{\infty} \frac{1}{\pi} \int_{R}^{\infty} f(t) \sin(3t) dt$$

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$$f(x): \mathbb{R} \rightarrow \mathbb{R}$$
 $f(\overline{s}) = \int_{-\infty}^{\infty} f(x) e^{-ix\overline{s}} dx$

TRAFORMAND DI FOURIFR

$$\frac{d}{d\xi} = \frac{d}{d\xi} \int_{-\infty}^{\infty} f(x) e^{-ix\xi} dx = \int_{-\infty}^{\infty} \frac{d}{d\xi} \left(f(x) e^{-ix\xi} \right) dx$$

$$= \int_{-\infty}^{\infty} f(x) e^{-ix\xi} (-ix) dx = -i \int_{-\infty}^{\infty} x f(x) e^{-ix\xi} dx$$

$$f'(x) = \int f(x)e^{-ix7} dx = f(x)e^{-ix7} - \int f(x)e^{-ix7} - \int f(x)e^{-ix7} = i7f(3)$$

$$= i3 \int_{\infty}^{\infty} f(x)e^{-ix7} = i3f(3)$$

$$\int_{\ell''(x)}^{\infty} = -|z|^2 f(\overline{z})$$

Neumann B compo magnetico voultile nel tempo

$$-\frac{d}{dt} \phi_{B} = \oint \vec{E} \cdot \vec{c} \, ds$$

$$C = \Im \vec{C}$$

$$\frac{\partial \vec{\beta}}{\partial t} = -\cot \vec{k}$$

Z Â

$$\frac{1}{\sqrt{12}} \int \int (\nabla \times \hat{\tau}) \hat{\Lambda} dS = \frac{1}{\sqrt{12}} \oint \hat{\tau} \cdot \hat{\tau} dS$$

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 $\int \int (\nabla x + \hat{f})_{3} dxdy$ $\int \int \int (\nabla x + \hat{f}(f))_{3} = \lim_{\epsilon \to 0^{+}} \int \int \int f + \hat{f} dx$ $\epsilon \to 0^{+} \prod_{\epsilon \to 0^{+}} \int \int f + \hat{f} dx$

COTTOONERS DI ZOLF RISORTO DÀ NEZ PINTO Po BI CIR CUITA HONE ATTORNO A P. F AMME PLLA AP13VEO MAN. OBERENDICORDE A A NEL