

Fourier Transform--Inverse Function

The Fourier transform of the generalized function $1/x$ is given by

$$\mathcal{F}_x \left(-PV \frac{1}{\pi x} \right) (k) = -\frac{1}{\pi} PV \int_{-\infty}^{\infty} \frac{e^{-2\pi i k x}}{x} dx \quad (1)$$

$$= PV \int_{-\infty}^{\infty} \frac{\cos(2\pi k x) - i \sin(2\pi k x)}{x} dx \quad (2)$$

$$= \begin{cases} -\frac{2i}{\pi} \int_0^{\infty} \frac{\sin(2\pi k x)}{x} dx & \text{for } k < 0 \\ \frac{2i}{\pi} \int_0^{\infty} \frac{\sin(2\pi k x)}{x} dx & \text{for } k > 0 \end{cases} \quad (3)$$

$$= \begin{cases} -i & \text{for } k < 0 \\ i & \text{for } k > 0, \end{cases} \quad (4)$$

where PV denotes the **Cauchy principal value**. Equation (4) can also be written as the single equation

Fourier Transform Sneddon

S Ben Porath



Fourier Transform Sneddon :

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