Fourier Transform--Inverse Function

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

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

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

$$= \begin{cases} -\dfrac{2i}{\pi}\displaystyle\int_{0}^{\infty}\frac{\sin(2\pi kx)}{x}\,dx & \text{for } k < 0 \\[2ex] \dfrac{2i}{\pi}\displaystyle\int_{0}^{\infty}\frac{\sin(2\pi kx)}{x}\,dx & \text{for } k > 0 \end{cases} \tag{3}$$

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

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

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