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Ready
Memory: 0.43M Time: 0.14s Text Mode

Each of these two integrals has even integrands, so we have

$$\frac{1}{2}\int_{-\infty}^{\infty}\frac{1}{(4+x^2)^2}\,dx+\frac{1}{2}\int_{-\infty}^{\infty}\frac{\cos(2x)}{(4+x^2)^2}\,dx$$

In each of *these* two integrals, close the contour in the upper half-plane, thereby forming C_R, and evaluate

$$\frac{1}{2}\int_{C_R}\frac{1}{(4+x^2)^2}\,dx+\frac{1}{2}\int_{C_R}\frac{\cos(2x)}{(4+x^2)^2}\,dx$$

For the first integral we have, by the Cauchy residue theorem,

$$\frac{1}{2}(2\pi i)\,\mathrm{Res}\left(\frac{1}{(4+z^2)^2},z=2i\right)=\pi i\left(-\frac{i}{32}\right)=\frac{\pi}{32}$$

where $z=2i$ is the only pole the integrand has in the upper half-plane. For the second integral, we have

$$\frac{1}{2}\,\Re\left(2\pi i\,\mathrm{Res}\left(\frac{e^{2iz}}{(4+z^2)^2},z=2i\right)\right)=\frac{1}{2}\,\Re\left(\left(-\frac{5i}{32}\right)e^{-4}2\pi i\right)=\frac{5\pi}{32}e^{-4}$$

and for the original integral, we have $\frac{\pi}{32}+\frac{5\pi}{32}e^{-4}=\frac{\pi}{32}(1+5e^{-4})$.

Software Engineering Mathematics

Annelies Wilder-Smith

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