



**Symbol Recognition**

**Expression**

$\int f \, dx \quad \int_a^b f \, dx$

$\sum_{i=1}^n f \quad \prod_{i=1}^n f \quad \frac{d}{dx} f$

$\frac{\partial}{\partial x} f \quad \lim_{x \rightarrow c} f \quad a^b$

$x_n \quad \sqrt{x} \quad \sqrt[n]{x}$

$a! \quad |a| \quad e^x$

$\ln(x) \quad \log_{10}(x)$

$\log_b(x) \quad \sin(x)$

$\cos(x) \quad \tan(x)$

$\begin{pmatrix} a \\ b \end{pmatrix} \quad f(a)$

$f(a, b) \quad f: x \rightarrow y$

$f: (a, b) \rightarrow z$

$f(x) \Big|_{x=a}$

$\begin{cases} -x & x < a \\ x & x \geq a \end{cases}$

**Units (32)**

**Common Symbols**

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

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

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

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

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

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

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

**RJ Shavelson**



## **Software Engineering Mathematics:**

## Whispering the Techniques of Language: An Psychological Journey through **Software Engineering Mathematics**

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