

## Test formula

$$\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi} \tag{1}$$

## Test tag for formula

$$\begin{aligned} \int_{-\infty}^{\infty} \exp\left\{-\frac{x^2}{2}\right\} dx &= \int_{-\infty}^{\infty} \sqrt{2} \exp\left\{-\frac{x^2}{2}\right\} dx / \sqrt{2} \\ &= \sqrt{2\pi} \end{aligned} \tag{2}$$

Gaussian integral is a very important formula. We can refer to the formula `\eqref{eq:gaussian}`.

$$\mathbb{E}(X) = \int_{-\infty}^{\infty} x f(x) dx \tag{3}$$

The expectation of a random variable is defined as `\eqref{eq:expectation}`.

## Test tag for code

```
import numpy as np
import matplotlib.pyplot as plt

x = np.linspace(-10, 10, 100)
y = np.exp(-x**2)

plt.plot(x, y)
plt.show()
```

## Test tag for image



Klee

# Test Footnote

This is a test footnote<sup>1</sup>.

# Test Table

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1. This is a test footnote. [↗](#)