

## Exercices d'intégration

Calculer les intégrales suivantes.

$$\int_0^4 \frac{x+1}{x^2+2x+2} dx$$

$$\int_1^4 \frac{x-0.5}{\sqrt{x^2-x+4}} dx$$

$$\int_0^{+\infty} \frac{x}{(x^2+1)^3} dx$$

$$\int_e^{e^2} \frac{1+\ln(x)}{x \ln(x)} dx$$

$$\int_4^{+\infty} \frac{1}{x^2-4x+3} dx$$

$$\int_0^1 \frac{x}{\sqrt{1+x}} dx$$

$$\int_{-\infty}^{+\infty} \exp(-|x|) dx$$

$$\int_1^5 \sqrt{2x-1} dx$$

$$\int_0^3 \frac{1}{\sqrt{25-3x}} dx$$

$$\int_0^2 \frac{x^2}{2+x^3} dx$$

$$\int_1^2 \frac{1}{x(1+\ln(x))} dx$$

$$\int_2^3 \frac{x+\frac{1}{2}}{x^2+x-3} dx$$

$$\int_0^1 \frac{\exp(x)}{(8-3\exp(x))^2} dx$$

$$\int_0^4 \frac{1}{1+\sqrt{x}} dx$$

$$\int_0^1 x^2 \sqrt{1+x^3} dx$$

$$\int_2^3 \ln(x^2-1) dx$$

$$\int_0^1 \frac{x+1}{\exp(x)} dx$$

$$\int_1^2 x \ln\left(\frac{x}{x+1}\right) dx$$

$$\int_2^1 x (\ln(x))^2 dx$$

$$\int_1^4 \frac{\ln(x)}{\sqrt{x}} dx$$