

Tablica neodređenih integrala

$$\int x^\alpha dx = \frac{x^{\alpha+1}}{\alpha+1} + C, \quad \alpha \neq -1$$

$$\int \frac{1}{x} dx = \ln|x| + C,$$

$$\int a^x dx = \frac{a^x}{\ln a} + C, \quad a > 0, \quad a \neq 1,$$

$$\int e^x dx = e^x + C$$

$$\int \sin x dx = -\cos x + C,$$

$$\int \operatorname{sh} x dx = \operatorname{ch} x + C$$

$$\int \cos x dx = \sin x + C,$$

$$\int \operatorname{ch} x dx = \operatorname{sh} x + C$$

$$\int \frac{dx}{\cos^2 x} = \operatorname{tg} x + C,$$

$$\int \frac{dx}{\operatorname{ch}^2 x} = \operatorname{th} x + C$$

$$\int \frac{dx}{\sin^2 x} = -\operatorname{ctg} x + C,$$

$$\int \frac{dx}{\operatorname{sh}^2 x} = -\operatorname{cth} x + C$$

$$\int \frac{dx}{\sqrt{a^2 - x^2}} = \arcsin \frac{x}{a} + C, \quad a > 0$$

$$\int \frac{dx}{x^2 + a^2} = \frac{1}{a} \operatorname{arctg} \frac{x}{a} + C, \quad a > 0$$

$$\int \frac{dx}{\sqrt{x^2 \pm a^2}} = \ln|x + \sqrt{x^2 \pm a^2}| + C, \quad a > 0$$

$$\int \frac{dx}{x^2 - a^2} = \frac{1}{2a} \ln \left| \frac{x-a}{x+a} \right| + C, \quad a > 0$$