

Základní neurčité integrály

$$\text{I} \quad \int dx = x + c$$

$$\text{II} \quad \int x^n dx = \frac{x^{n+1}}{n+1} + c, \quad n \neq -1$$

$$\text{III} \quad \int \frac{1}{x} dx = \ln|x| + c \quad \left(\int \frac{f'(x)}{f(x)} dx = \ln|f(x)| + c \right)$$

$$\text{IV} \quad \int a^x dx = \frac{a^x}{\ln a} + c$$

$$\text{V} \quad \int e^x dx = e^x + c$$

$$\text{VI} \quad \int \sin x dx = -\cos x + c$$

$$\text{VII} \quad \int \cos x dx = \sin x + c$$

$$\text{VIII} \quad \int \frac{1}{\cos^2 x} dx = \operatorname{tg} x + c$$

$$\text{IX} \quad \int \frac{1}{\sin^2 x} dx = -\operatorname{co} \operatorname{tg} x + c$$

$$\text{X} \quad \int f(ax + b) dx = \frac{1}{a} F(ax + b) + c$$