

TABELA NEDOLOČENIH INTEGRALOV

$$\int x^r dx = \frac{x^{r+1}}{r+1} + C, \quad r \in \mathbb{R} \setminus \{-1\},$$

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

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

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

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

$$\int a^x dx = \frac{a^x}{\ln a} + C, \quad a \in (0, \infty) \setminus \{1\},$$

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

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

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

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

$$\int \frac{dx}{\sqrt{1-x^2}} = \arcsin x + C,$$

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

$$\int \frac{dx}{\sqrt{x^2+a^2}} = \ln \left(x + \sqrt{x^2+a^2} \right) + C, \quad a > 0,$$

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