

## Osnovni tablični integrali

Autor Ivan

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|                                    |                                                                   |
|------------------------------------|-------------------------------------------------------------------|
| $\int x^n dx$                      | $\frac{x^{n+1}}{n+1} + C, n \neq -1$                              |
| $\int \frac{dx}{x}$                | $\ln x  + C$                                                      |
| $\int \frac{dx}{x^2 + a^2}$        | $\frac{1}{a} \operatorname{arctg} \frac{x}{a} + C, (a \neq 0)$    |
| $\int \frac{dx}{x^2 - a^2}$        | $\frac{1}{2a} \ln \left  \frac{x-a}{x+a} \right  + C, (a \neq 0)$ |
| $\int \frac{dx}{a^2 - x^2}$        | $\frac{1}{2a} \ln \left  \frac{a+x}{a-x} \right  + C, (a \neq 0)$ |
| $\int \frac{dx}{\sqrt{x^2 + a^2}}$ | $\ln \left  x + \sqrt{x^2 + a^2} \right  + C, (a \neq 0)$         |
| $\int \frac{dx}{\sqrt{a^2 - x^2}}$ | $\arcsin \frac{x}{a} + C, (a > 0)$                                |
| $\int a^x dx$                      | $\frac{a^x}{\ln a} + C, (a > 0)$                                  |
| $\int e^x dx$                      | $e^x + C$                                                         |
| $\int \sin x dx$                   | $-\cos x + C$                                                     |
| $\int \cos x dx$                   | $\sin x + C$                                                      |
| $\int \frac{dx}{\cos^2 x}$         | $\operatorname{tg} x + C$                                         |
| $\int \frac{dx}{\sin^2 x}$         | $-\operatorname{ctg} x + C$                                       |