

Pravila za integriranje

1. $\int dx = x + c$

2. $\int x^n dx = \frac{x^{n+1}}{n+1} + c$

3. $\int x^{-1} dx = \ln|x| + c$

4. $\int k f(x) dx = k \int f(x) dx$

5. $\int (f(x) + g(x)) dx = \int f(x) dx + \int g(x) dx$

6. $\int e^x dx = e^x + c$

7. $\int a^x dx = \frac{a^x}{\ln a} + c$

8. $\int \sin x \cdot dx = -\cos x + c$

9. $\int \cos x \cdot dx = \sin x + c$

10. $\int \frac{1}{\cos^2 x} dx = \tan x + c$

11. $\int \frac{1}{\sin^2 x} dx = -\cot x + c$

12. $\int \frac{1}{x^2 + 1} dx = \arctan x + c$

13. $\int \frac{1}{\sqrt{1-x^2}} dx = \arcsin x + c$

14. $\int \frac{1}{x^2 + a^2} dx = \frac{1}{a} \cdot \arctan \frac{x}{a} + c$

15. $\int \frac{1}{\sqrt{a^2 - x^2}} dx = \arcsin \frac{x}{a} + c$