**Pravila za integriranje**

\int af(x)\,dx = a\int f(x)\,dx \qquad\mbox{(}a \mbox{ konstanta)}\,\!

\int [f(x) + g(x)]\,dx = \int f(x)\,dx + \int g(x)\,dx

**Tablica neodređenih integrala**

**Racionalne funkcije**

\int \,{\rm d}x = x + C

\int x^n\,{\rm d}x =  \frac{x^{n+1}}{n+1} + C\qquad\mbox{ ako }n \ne -1

\int {dx \over x} = \ln{\left|x\right|} + C

\int {dx \over {a^2+x^2}} = {1 \over a}\arctan {x \over a} + C

**Iracionalne funkcije**

\int {dx \over \sqrt{a^2-x^2}} = \sin^{-1} {x \over a} + C

\int {-dx \over \sqrt{a^2-x^2}} = \cos^{-1} {x \over a} + C

\int {dx \over x \sqrt{x^2-a^2}} = {1 \over a} \sec^{-1} {|x| \over a} + C

**Logaritmi**

\int \ln {x}\,dx = x \ln {x} - x + C

\int \log_b {x}\,dx = x\log_b {x} - x\log_b {e} + C

**Eksponencijalne funkcije**

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

\int a^x\,dx = \frac{a^x}{\ln{a}} + C

**Trigonometrijske funkcije**

\int \sin{x}\, dx = -\cos{x} + C

\int \cos{x}\, dx = \sin{x} + C

\int \tan{x} \, dx = \ln{\left| \sec {x} \right|} + C

\int \cot{x} \, dx = -\ln{\left| \csc{x} \right|} + C

\int \sec{x} \, dx = \ln{\left| \sec{x} + \tan{x}\right|} + C

\int \csc{x} \, dx = -\ln{\left| \csc{x} + \cot{x}\right|} + C

\int \sec^2 x \, dx = \tan x + C

\int \csc^2 x \, dx = -\cot x + C

\int \sin^2 x \, dx = \frac{1}{2}(x - \sin x \cos x) + C

\int \cos^2 x \, dx = \frac{1}{2}(x + \sin x \cos x) + C

\int \sin^n x \, dx = - \frac{\sin^{n-1} {x} \cos {x}}{n} + \frac{n-1}{n} \int \sin^{n-2}{x} \, dx

\int \cos^n x \, dx = \frac{\cos^{n-1} {x} \sin {x}}{n} + \frac{n-1}{n} \int \cos^{n-2}{x} \, dx

\int \arctan{x} \, dx = x \, \arctan{x} - \frac{1}{2} \ln{\left| 1 + x^2\right|} + C