

Metode de integrare

Integrarea directă	Integrarea prin părți	Integrarea prin schimbare de variabilă	Integrarea funcțiilor raționale
1. $\int (x^2 + 2x + 1) dx$	1. $\int \ln x dx$	1. $\int \frac{x}{\sqrt{5-x^2}} dx$	1. $\int \frac{1}{(x+1)(x+2)} dx$
2. $\int \frac{x+1}{\sqrt{x}} dx$	2. $\int \arctg x dx$	2. $\int \frac{x}{x^2-2} dx$	2. $\int \frac{1}{x^4-1} dx$
3. $\int \frac{x^3+x^2+x+1}{x^2} dx$	3. $\int \arcsin x dx$	3. $\int \frac{x}{x^4-4} dx$	3. $\int \frac{1}{x^4+1} dx$
4. $\int \frac{x^2}{x^2-4} dx$	4. $\int x^n \ln x dx$	4. $\int \frac{\arctg x}{x^2+1} dx$	4. $\int \frac{1}{x^2-4x+8} dx$
5. $\int \frac{\sqrt{x^2-3} + \sqrt{x^2+3}}{\sqrt{x^4-9}} dx$	5. $\int x e^x dx$	5. $\int \frac{1}{1-\cos x} dx$	5. $\int \frac{x+1}{x^2-2x+1} dx$
6. $\int \sin \frac{x}{2} \cos \frac{x}{2} dx$	6. $\int x \sin x dx$	6. $\int tg^3 x dx$	6. $\int \frac{1}{x(x+1)} dx$
7. $\int \frac{1}{3x+1} dx$	7. $\int x^n e^x dx$	7. $\int \frac{1}{x(\ln^2 x - 1)} dx$	7. $\int \frac{1}{x(x+1)(x+2)(x+3)} dx$
8. $\int \frac{x^2}{x-2} dx$	8. $\int \sqrt{4-x^2} dx$	8. $\int \frac{1}{e^x+1} dx$	8. $\int \frac{1}{x^2(2x-1)} dx$
9. $\int \frac{1}{\sqrt{5-x^2}} dx$	9. $\int \frac{\ln x}{\sqrt{x}} dx$	9. $\int \sin^3 x dx$	9. $\int \frac{2x}{x^4+x^2+1} dx$
10. $\int (\arctg x + \operatorname{arccot} x) dx$	10. $\int e^x \cos x dx$	10. $\int x \sqrt[5]{x^2+1} dx$	10. $\int \frac{2x-5}{(x-1)(x-2)(x-3)(x-4)-1} dx$