

สูตรอินทิกรัล

1. $\int k dx = kx + C$
2. $\int \frac{1}{x} dx = \ln|x| + C$
3. $\int x^n dx = \frac{x^{n+1}}{n+1} + C \quad (n \neq -1)$
4. $\int e^{kx} dx = \frac{e^{kx}}{k} + C \quad (k \neq 0)$
5. $\int a^x dx = \frac{a^x}{\ln a} + C$
6. $\int \cos x dx = \sin x + C$
7. $\int \sin x dx = -\cos x + C$
8. $\int \sec^2 x dx = \tan x + C$
9. $\int \csc^2 x dx = -\cot x + C$
10. $\int \sec x \tan x dx = \sec x + C$
11. $\int \csc x \cot x dx = -\csc x + C$
12. $\int \tan x dx = \ln|\sec x| + C$
13. $\int \cot x dx = \ln|\sin x| + C$
14. $\int \sec x dx = \ln|\sec x + \tan x| + C$
15. $\int \frac{1}{x^2+a^2} dx = \frac{1}{a} \arctan\left(\frac{x}{a}\right) + C \quad (a \neq 0)$
16. $\int \frac{1}{(ax+b)^n} dx = -\frac{1}{(n-1)a} \frac{1}{(ax+b)^{n-1}} \quad (a \neq 0, n \neq 1)$