TABEL FORMULA INTEGRAL DASAR

No.	Formula Integral	Syarat / Keterangan
1.	$\int x^r dx = \frac{x^{r+1}}{r+1} + C$	Syarat ; $r \neq 1$
2.	$\int a\, f(x)dx = a \int f(x)dx$	a adalah sebuah konstanta
3.	$\int [f(x) + g(x)]dx = \int f(x)dx + \int g(x)dx$	
4.	$\int [f(x) - g(x)]dx = \int f(x)dx - \int g(x)dx$	
5.	$\int [g(x)]^r\, g'(x)dx = \frac{[g(x)]^{r+1}}{r+1} + C$	Syarat ; $r \neq 1$
6.	$\int \sin x\, dx = -\cos x + C$	
7.	$\int \cos x\, dx = \sin x + C$	
8.	$\int \tan x\, dx = \ln \lvert\sec x\rvert + C$	
9.	$\int \cot x\, dx = \ln \lvert\sin x\rvert + C$	
10.	$\int \sec x\, dx = \ln \lvert\sec x + \tan x\rvert + C$	
11.	$\int \text{cosec } x\, dx = \ln \lvert\text{cosec } x - \cot x\rvert + C$	
12.	$\int sec^2 x\, dx = \tan x + C$	
13.	$\int cosec^2 x\, dx = -\cot x + C$	
14.	$\int \sec x \tan x\, dx = \sec x + C$	
15.	$\int \frac{dx}{x} = \ln\lvert x\rvert + C$	
16.	$\int a^x\, dx = \frac{a^x}{\ln\lvert x\rvert}$	$a > 0, a \neq 1,\ a$ konstanta
17.	$\int e^x\, dx = e^x + C$	

No.	Formula Integral	Syarat / Keterangan
18.	$\int \frac{dx}{\sqrt{a^2 - x^2}} = sin^{-1}\left(\frac{x}{a}\right) + C$	
19.	$\int \frac{dx}{a^2 + x^2} = \frac{1}{a} tan^{-1}\left(\frac{x}{a}\right) + C$	
20.	$\int \frac{dx}{x\sqrt{x^2 - a^2}} = \frac{1}{a} sec^{-1}\left(\frac{x}{a}\right) + C$	
21.	$\int \frac{dx}{a^2 - x^2} = \frac{1}{2a} ln\left\|\frac{x - a}{x + a}\right\| + C$	
22.	$\int \frac{dx}{a^2 - x^2} = \frac{1}{2a} ln\left\|\frac{a + x}{a - x}\right\| + C$	
23.	$\int \frac{dx}{x^2 - a^2} = \frac{1}{2a} ln\left\|\frac{x - a}{x + a}\right\| + C$	
24.	$\int \frac{dx}{\sqrt{x^2 + a^2}} = \ln\left(x + \sqrt{x^2 + a^2}\right) + C$	
25.	$\int \frac{dx}{\sqrt{x^2 - a^2}} = \ln\left(x + \sqrt{x^2 - a^2}\right) + C$	
26.	$\int \sqrt{a^2 - x^2}\, dx = \frac{1}{2} x\sqrt{a^2 - x^2} + \frac{1}{2} a^2 sin^{-1}\left(\frac{x}{a}\right) + C$	
27.	$\int \sqrt{x^2 + a^2}\, dx = \frac{1}{2} x\sqrt{a^2 + x^2} + \frac{1}{2} a^2 \ln\left(x + \sqrt{x^2 + a^2}\right) + C$	
28.	$\int \sqrt{x^2 - a^2}\, dx = \frac{1}{2} x\sqrt{x^2 - a^2} - \frac{1}{2} a^2 \ln\left(x + \sqrt{x^2 + a^2}\right) + C$	