

- (i) $\int dx = x + C$.
- (ii) $\int x^n dx = \frac{x^{n+1}}{n+1} + C, \quad n \neq -1$.
- (iii) $\int \frac{dx}{x} = \ln|x| + C$.
- (iv) $\int a^x dx = \frac{a^x}{\ln a} + C, \quad a > 0, \quad a \neq 1$.
- (v) $\int e^x dx = e^x + C$.
- (vi) $\int \text{sen } x \, dx = -\cos x + C$.
- (vii) $\int \cos x \, dx = \text{sen } x + C$.
- (viii) $\int \text{tg } x \, dx = \ln|\sec x| + C$.
- (ix) $\int \text{cotg } x \, dx = \ln|\text{sen } x| + C$.
- (x) $\int \sec x \, dx = \ln|\sec x + \text{tg } x| + C$.
- (xi) $\int \text{cosec } x \, dx = \ln|\text{cosec } x - \text{cotg } x| + C$.
- (xii) $\int \sec x \, \text{tg } x \, dx = \sec x + C$.
- (xiii) $\int \text{cosec } x \, \text{cotg } x \, dx = -\text{cosec } x + C$.
- (xiv) $\int \sec^2 x \, dx = \text{tg } x + C$.
- (xv) $\int \text{cosec}^2 x \, dx = -\text{cotg } x + C$.
- (xvi) $\int \frac{dx}{x^2 + a^2} = \frac{1}{a} \text{arc tg } \frac{x}{a} + C$.
- (xvii) $\int \frac{dx}{x^2 - a^2} = \frac{1}{2a} \ln \left| \frac{x-a}{x+a} \right| + C, \quad x^2 > a^2$.
- (xviii) $\int \frac{dx}{\sqrt{x^2 + a^2}} = \ln \left| x + \sqrt{x^2 + a^2} \right| + C$.
- (xix) $\int \frac{dx}{\sqrt{x^2 - a^2}} = \ln \left| x + \sqrt{x^2 - a^2} \right| + C$.
- (xx) $\int \frac{dx}{\sqrt{a^2 - x^2}} = \text{arc sen } \frac{x}{a} + C, \quad x^2 < a^2$.