समाकलन के सूत्र

- $\int x^n \cdot dx = \frac{x^{n+1}}{n+1} + C$
- $\int e^x \cdot dx = e^x + C$
- $\int e^{-x} \cdot dx = -e^{-x} + C$
- $\int \frac{1}{x} \cdot dx = \log x + C$
- $\int \text{Sin}x \cdot dx = -\text{Cos}x + C$
- $\int \text{Cos}x \cdot dx = \text{Sin}x + C$
- $\int \text{Tan}x \cdot dx = \log \text{Sec}x + C$
- $\int \text{Cot}x \cdot dx = \log \text{Sin}x + C$
- $\int \text{Sec}x \cdot dx = \log |\text{Sec}x + \text{Tan}x| + C$
- $\int \text{Cosec}x \cdot dx = \log |\text{Cosec}x - \text{Cot}x| + C$

- $$\int \frac{1}{\sqrt{1 - x^2}} \cdot dx = \text{Sin}^{-1} x + C$$
- $$\int \frac{1}{1 + x^2} \cdot dx = \text{Tan}^{-1} x + C$$
- $$\int \frac{1}{x\sqrt{x^2 - 1}} \cdot dx = \text{Sec}^{-1} x + C$$
- $$\int \frac{1}{\sqrt{a^2 - x^2}} \cdot dx = \text{Sin}^{-1}\left(\frac{x}{a}\right) + C$$
- $$\int \frac{1}{\sqrt{x^2 - a^2}} \cdot dx = \log\left| x + \sqrt{x^2 - a^2} \right| + C$$
- $$\int \frac{1}{\sqrt{x^2 + a^2}} \cdot dx = \log\left| x + \sqrt{x^2 + a^2} \right| + C$$
- $$\int \sqrt{a^2 - x^2} \cdot dx = \frac{x}{2}\sqrt{a^2 - x^2} + \frac{a^2}{2}\text{Sin}^{-1}\left(\frac{x}{a}\right) + C$$
- $$\int \sqrt{a^2 + x^2} \cdot dx = \frac{x}{2}\sqrt{a^2 + x^2} + \frac{a^2}{2}\log\left| x + \sqrt{x^2 + a^2} \right| + C$$
- $$\int \sqrt{x^2 - a^2} \cdot dx = \frac{x}{2}\sqrt{x^2 - a^2} - \frac{a^2}{2}\log\left| x + \sqrt{x^2 - a^2} \right| + C$$

- $\int \frac{1}{a^2 - x^2} \cdot dx = \frac{1}{2a} \log \left| \frac{a + x}{a - x} \right| + C$

- $\int \frac{1}{x^2 - a^2} \cdot dx = \frac{1}{2a} \log \left| \frac{x - a}{x + a} \right| + C$

- $\int \text{Sec}^2 x \cdot dx = \text{Tan} x + C$

- $\int \text{Cosec}^2 x \cdot dx = - \text{Cot} x + C$

- $\int \text{Sec} x \cdot \text{Tan} x \cdot dx = \text{Sec} x + C$

- $\int \text{Cosec} x \cdot \text{Cot} x \cdot dx = - \text{Cosec} x + C$

- $\int K \cdot dx = Kx + C$ (जहाँ K = अचर राशि)

- $\int \frac{1}{x^2 + a^2} \cdot dx = \frac{1}{a} \text{Tan}^{-1} \frac{x}{a} + C$