1. $\displaystyle \int u^{\alpha} du = \frac{u^{\alpha+1}}{\alpha + 1} + C \ \ (\alpha \neq -1).$

2. $\displaystyle \int \frac{du}{u} = \ln |u| + C.$

3. $\displaystyle \int a^u du = \frac{a^u}{\ln a} + C \ \ (a > 0, a \neq 1).$

4. $\displaystyle \int e^u du = e^u + C.$

5. $\displaystyle \int \sin u\, du = -\cos u + C.$

6. $\displaystyle \int \cos u\, du = \sin u + C.$

7. $\displaystyle \int \frac{du}{\cos^2 u} = \operatorname{tg} u + C.$

8. $\displaystyle \int \frac{du}{\sin^2 u} = -\operatorname{ctg} u + C.$

9. $\displaystyle \int \operatorname{sh} u\, du = \operatorname{ch} u + C.$

10. $\displaystyle \int \operatorname{ch} u\, du = \operatorname{sh} u + C.$

11. $\displaystyle \int \frac{du}{\operatorname{ch}^2 u} = \operatorname{th} u + C.$

12. $\displaystyle \int \frac{du}{\operatorname{sh}^2 u} = -\operatorname{cth} u + C.$

13. $\displaystyle\int \frac{du}{u^2 - a^2} = \frac{1}{2a} \ln\left|\frac{u-a}{u+a}\right| + C \quad (a \neq 0).$

14. $\displaystyle\int \frac{du}{u^2 + a^2} = \frac{1}{a}\operatorname{arctg}\frac{u}{a} + C \quad (a \neq 0).$

15. $\displaystyle\int \frac{du}{\sqrt{u^2 \pm a^2}} = \ln\left|u + \sqrt{u^2 \pm a^2}\right| + C \quad (|u| > |a|).$

16. $\displaystyle\int \frac{du}{\sqrt{a^2 - u^2}} = \arcsin\frac{u}{a} + C \quad (|u| < |a|).$

17. $\displaystyle\int \operatorname{tg} u\, du = -\ln\left|\cos u\right| + C.$

18. $\displaystyle\int \operatorname{ctg} u\, du = \ln\left|\sin u\right| + C.$

Якщо $\int f(x)dx = F(x) + C$, то для будь-яких сталих k та b

$$\int f(kx + b)dx = \frac{1}{k}F(kx+b) + C.$$

$$\int f(kx)\,dx = \frac{1}{k}F(kx) + C\,;$$

$$\int f(x+b)\,dx = F(x+b) + C.$$

$$\int e^{kx}dx = \frac{1}{k}e^{kx} + C \quad (k\ -\ \text{стала},\ k \neq 0).$$

$$\int \cos kx\,dx = \frac{1}{k}\sin kx + C \quad (k\ -\ \text{стала},\ k \neq 0).$$