1. $\int x^n dx = \frac{x^{n+1}}{n+1} + C (n \neq -1)$

2. $\int \frac{1}{x} dx = \ln|x| + C$

3. $\int a^x dx = \frac{a^x}{\ln a} + C$

4. $\int e^x dx = e^x + C$

5. $\int \sin x \, dx = -\cos x + C$

6. $\int \cos x \, dx = \sin x + C$

7. $\int \frac{dx}{\sin^2 x} = -ctg\, x + C$

8. $\int \frac{dx}{\cos^2 x} = tg\, x + C$

9. $\int \frac{dx}{a^2 + x^2} = \frac{1}{a} arctg\, \frac{x}{a} + C (a \neq 1)$

10. $\int \frac{dx}{\sqrt{a^2 - x^2}} = \arcsin \frac{x}{a} + C$

11. $\int \frac{dx}{a^2 - x^2} = \frac{1}{2a} \ln \left| \frac{a-x}{a+x} \right| + C$

12. $\int \frac{x dx}{a^2 \pm x^2} = \pm \frac{1}{2} \ln |a^2 \pm x^2| + C$

13. $\int \frac{dx}{\sqrt{a^2 \pm x^2}} = \pm sqrt{a^2 \pm x^2} + C$

14. $\int \frac{dx}{\sqrt{x^2 \pm a^2}} = \ln |x + \sqrt{x^2 \pm a^2}| + C (a > 0)$