1. $\int 0 \cdot dx = C.$

2. $\int 1 \cdot dx = \int dx = x + C.$

3. $\int x^\mu \, dx = \frac{x^{\mu+1}}{\mu+1} + C \qquad (\mu \neq -1)$

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

5. $\int \frac{1}{1+x^2} dx = \int \frac{dx}{1+x^2} = \operatorname{arctg} x + C.$

6. $\int \frac{1}{\sqrt{1-x^2}} dx = \int \frac{dx}{\sqrt{1-x^2}} = \arcsin x + C.$

7. $\int a^x \, dx = \frac{a^x}{\ln a} + C. \qquad \int e^x \, dx = e^x + C.$

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

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

10. $\int \frac{1}{\sin^2 x} dx = \int \frac{dx}{\sin^2 x} = -\operatorname{ctg} x + C.$

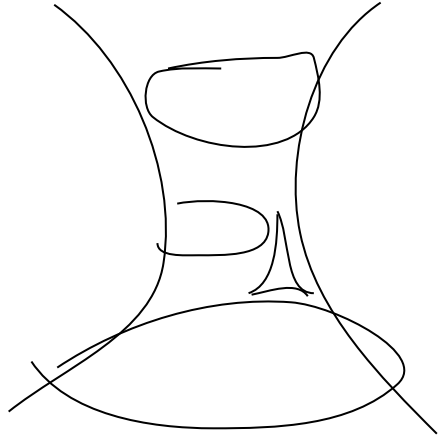
11. $\int \frac{1}{\cos^2 x} dx = \int \frac{dx}{\cos^2 x} = \operatorname{tg} x + C.$

12. $\int \operatorname{sh} x \, dx = \operatorname{ch} x + C.$ чосинус

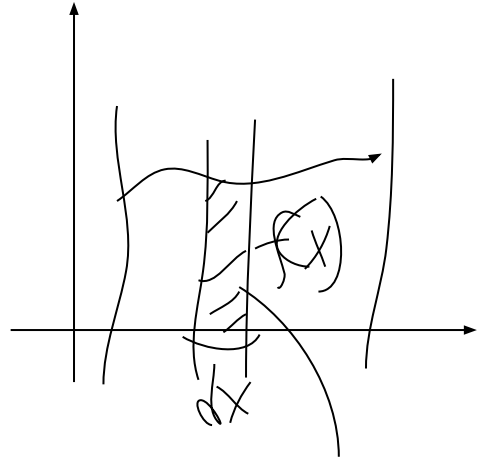
13. $\int \operatorname{ch} x \, dx = \operatorname{sh} x + C.$ шинус

14. $\int \frac{1}{\operatorname{sh}^2 x} dx = -\operatorname{cth} x + C.$

15. $\int \frac{1}{\operatorname{ch}^2 x} dx = \operatorname{th} x + C.$



$$\int_a^b f(x)\,dx = F(a) - F(b)$$



$$\int f(x)\,dx$$