











INTEGRALI

1)
$$\int x^p dx = \frac{x^{p+1}}{p+1} + c$$
 $(p \in \mathbb{R}, p \neq -1)$

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)
$$\int \frac{1}{\cos^2 x} dx = \tan x + c$$

8)
$$\int \frac{1}{\sin^2 x} dx = -\cot x + c$$

9)
$$\int \frac{1}{1+x^2} dx = \arctan x + c$$

10)
$$\int \frac{1}{\sqrt{1-x^2}} dx = \arcsin x + c$$

11)
$$\int \sinh x \, dx = \cosh x + c$$

12)
$$\int \cosh x \, dx = \sinh x + c$$

13)
$$\int \frac{1}{\sqrt{1+x^2}} dx = \operatorname{settsinh} x + c = \ln(x + \sqrt{1+x^2}) + c$$

14)
$$\int \frac{\sqrt{1-x}}{\sqrt{x^2-1}} dx = \ln|x+\sqrt{x^2-1}| + c$$

DERIVATE

1)
$$D(x^p) = px^{p-1} \quad (p \in \mathbb{R})$$

2)
$$D(a^x) = a^x \ln a$$

3)
$$D(e^x) = e^x$$

4)
$$D(\log_a x) = \frac{1}{x} \log_a \epsilon$$

5)
$$D(\ln x) = \frac{1}{x}$$

6)
$$D(\sin x) = \cos x$$

7)
$$D(\cos x) = -\sin x$$

8)
$$D(\tan x) = \frac{1}{\cos^2 x} = 1 + \tan^2 x$$

9)
$$D(\cot x) = -\frac{1}{\sin^2 x} = -1 - \cot^2 x$$

10)
$$D(\arcsin x) = \frac{1}{\sqrt{1-x^2}}$$

11)
$$D(\arccos x) = -\frac{1}{\sqrt{1-x^2}}$$

12)
$$D(\arctan x) = \frac{1}{1+x^2}$$

13)
$$D(\sinh x) = \cosh x$$

14)
$$D(\cosh x) = \sinh x$$

15)
$$D(\operatorname{settsinh} x) = \frac{1}{\sqrt{1+x^2}}$$

16)
$$D(\operatorname{settcosh} x) = \frac{1}{\sqrt{x^2-1}}$$