

Integral

13 Septembre, 2023

Lucas

The Integral (AntiDerivative)

Definition

Theorem:

If F a antiderivative of f then F+C is the most general antiderivative

Ex:

$$f(x) = \cos(x)$$

$$F(x) = \sin x + c$$

Ex:

$$f(x) = x^n, n \neq -1$$

Power Chain Rule :

$$F = \frac{x^{n+1}}{n+1} + C$$

Ex:

$$n=-1 : f(x) = \frac{1}{x}$$

$$F(x) = \ln|x| + c$$

Links

- [Identities](#)
- [Techniques](#)
- [Nice Exercices](#)
- [Maths](#)