Integral

24 Octobre, 2023

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The Integral (AntiDerivative)

Definition

Theorem:

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

Ex:

$f(x) = cos(x)$

$F(x) = sinx + c$

Ex:

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

Power Chain Rule :

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

Ex:

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

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

Links

- Identities
- Techniques
- Nice Exercices
- Maths