

1 Rappels

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2 Approfondissements

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Soit f une fonction verifiant

$$f(x) = 2x + 1 \quad (1)$$

On a $f(x) - 1 = 2x$ d'après la formule (1).

$$(x^2)^3 = x^{2^3} \tag{2}$$

$$F_n = 7^{2^n} + 1 \quad (3)$$

$$y = x^2 \iff x = y^{1/2}$$

$$x > 0 \implies x^2 \neq 0$$

$$x \in X \setminus Y \implies x \notin Y$$

$$u_{n+1} = \sqrt[3]{1+x}$$

$$x_5 = \sqrt{1 + \sqrt{2 + \sqrt{3 + \sqrt{4 + \sqrt{5}}}}}$$

$$x^{1/3} = x^{\frac{1}{3}} = \sqrt[3]{x}$$

$$\sqrt{2} = 1 + \frac{1}{2 + \frac{1}{2 + \frac{1}{2 + \frac{1}{\ddots}}}}$$

$$\frac{\pi^2}{6} + \gamma = \Gamma(n) + \sqrt[n]{1 + \alpha}$$

$$(\sqrt{x})^2 = x \quad \text{mais} \quad \sqrt{x^2} \neq x \quad \text{en general}$$

$$\cos^2 + \sin^2 = 1$$

$$2^{\ln(x)} = x^{\ln(2)}$$

$$\sum_{n=1}^{+\infty} \frac{1}{n^2} = \frac{\pi^2}{6}$$

$$\int_0^1 -\frac{\ln(1-t)}{t} dt \approx 1,64493$$

$$\max_{\substack{x,y \in E \\ x \cdot y}} = \varphi(x)$$

$$\overrightarrow{OM} = \underbrace{O + \vec{u}}_{point + vecteur}$$

$$\|x\| = 1 \iff \langle x, x \rangle = 1$$

$$|\{1, 2, \dots, n\}| = n$$

$$\lfloor x^2 + \epsilon \rfloor = \lceil \sqrt{y} + \delta \rceil$$

$$\left[\sum_{n=1}^N u_n \right]^2 = N^2 + N + 1$$

$$\left[1 + \left(\int_0^{\sqrt{2}} f\right)^2\right] = \gamma$$

$$\{\,a+ib\in\mathbb{C}\mid a<b\,\}$$

$$\mathcal{L}f=\int_a^bf\,\mathrm{d}t$$

$$\left[\begin{array}{c}a\in\mathbb{C}\\a\not\in\mathbb{R}\end{array}\right]\Longrightarrow a\in\mathbb{C}\setminus\mathbb{R}$$

$$\mathbb{M}=\begin{pmatrix}m_{1,1}&\cdots&m_{1,n}\\\vdots&\ddots&\vdots\\m_{n,1}&\cdots&m_{n,n}\end{pmatrix}$$