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## 1 Rappels

## 2 Approfondissements

Soit f une function verifiant

$$f(x) = 2x + 1 \tag{1}$$

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

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

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$$F_{n} = 7^{2^{n}} + 1$$

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

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

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

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

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

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

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

$$\vdots$$

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

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

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

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

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

$$\int_{0}^{1} -\frac{\ln(1 - t)}{t} dt \approx 1,64493$$

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

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

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

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

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

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

$$\left[1 + \left(\int_{0}^{\sqrt{2}} f\right)^{2}\right] = \gamma$$

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

$$\mathcal{L}f = \int_{a}^{b} f \, dt$$

$$\left[ \begin{array}{c} a \in \mathbb{C} \\ a \notin \mathbb{R} \end{array} \right] \implies a \in \mathbb{C} \setminus \mathbb{R}$$

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