

LIMITE D'UNE FONCTION

I) RAPPELLES ET COMPLEMENTS.

$$]a, b[= \{x \in \mathbb{R} / a < x < b\}$$

- Le centre de l'intervalle $]a, b[$ est le réel $x_0 = \frac{a+b}{2}$
- Le rayon de l'intervalle $]a, b[$ est le réel positif $r = \frac{b-a}{2}$

Activité :

Déterminer les bornes d'un intervalle ouvert de centre x_0 et de rayon r (deux réels données)

Définition :

L'ensemble : $]a, b[* = \{x \in \mathbb{R} / a < x < b\} / \{x_0\}$ où x_0 est le centre de l'intervalle $]a, b[$, s'appelle l'intervalle pointé de bornes a et b .

Remarque :

Si r est le rayon de l'intervalle $]a, b[$ et x_0 son centre alors : $]a, b[* =]x_0 - r, x_0 + r[/ \{x_0\}$

Activité :

Montrer que $x \in]x_0 - r, x_0 + r[/ \{x_0\} \Leftrightarrow 0 < |x - x_0| < r$

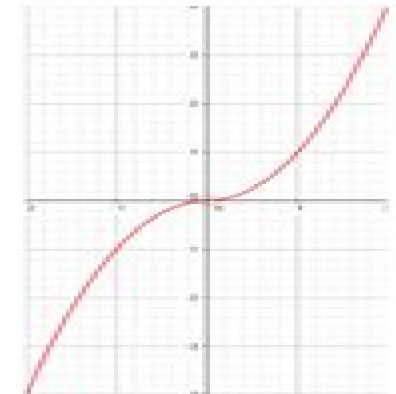
Activité :

- 1- Rappeler l'image d'un ensemble par une application.
- 2- Rappeler $f(A) \subset B$
- 3- Traduire en utilisant les valeurs absolues : $f(]x_0 - r, x_0 + r[*) \subset]l - \beta, l + \beta[$

II) LIMITE NULLE EN 0.

Considérons la fonction : $f : \mathbb{R} \rightarrow \mathbb{R}$
 $x \mapsto \frac{x^2}{|x|}$

- 1- Déterminer l'ensemble de définition de f .
- 2- Ecrire des expressions de f sur des intervalles sans valeur absolue.
- 3- La courbe de f est ci-contre :
 - a)- Déterminer un réel α tel que : $f(]-\alpha, \alpha[*) \subset]-2, 2[$
 - b)- Déterminer un réel α tel que : $f(]-\alpha, \alpha[*) \subset]-10^{-2}, 10^2[$
 - c)- Déterminer un réel α tel que : $f(]-\alpha, \alpha[*) \subset]-\varepsilon, \varepsilon[$



En répondant à la question 3-c) on peut conclure que :

$$(\forall \varepsilon > 0)(\exists \alpha > 0)(\forall x \in D_f)(0 < |x| < \alpha \Rightarrow |f(x)| < \varepsilon)$$

On dit que la fonction f admet 0 comme limite en 0. et on écrit : $\lim_{x \rightarrow 0} f(x) = 0$

Définition :

Soit f une fonction définie sur un intervalle pointé de centre 0. On dit que f admet la limite 0 en 0 si elle vérifie la propriété suivante : $(\forall \varepsilon > 0)(\exists \alpha > 0)(\forall x \in D_f)(0 < |x| < \alpha \Rightarrow |f(x)| < \varepsilon)$. On écrit : $\lim_{x \rightarrow 0} f(x) = 0$.

Sans Limites Techniques D'une Initiation

Wolfgang Guggemos



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