

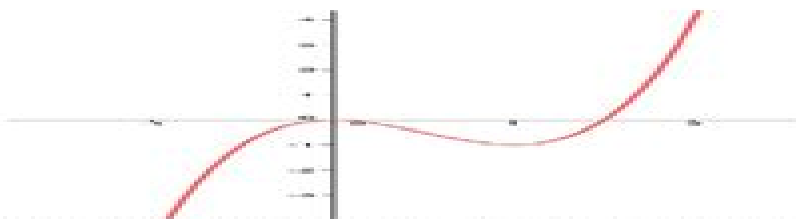
ETUDE DES FONCTIONS

1) CONCAVITE ; CONVEXITE ; POINTS D'INFLEXION

1) **Activité** : Soit la fonction g définie sur $\mathbb{R}$ par :

$$g(x) = 2x^3 - 3x^2$$

- Déterminer les dérivées première et seconde de la fonction g .
- Dresser le tableau de signe de $g''(x)$.



3. La courbe représentative de g est représentée ci-contre

Étudier graphiquement La position relative de la courbe c_g par rapport à ses tangentes.

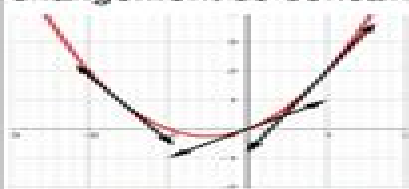
4. Que peut-on conclure ?

2) **Définition et propriétés.**

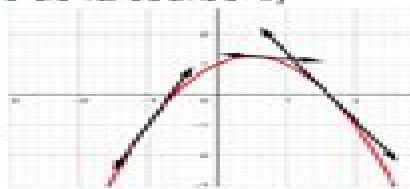
2.1 Définitions :

Définition : Soit f une fonction dont la courbe représentative est C_f .

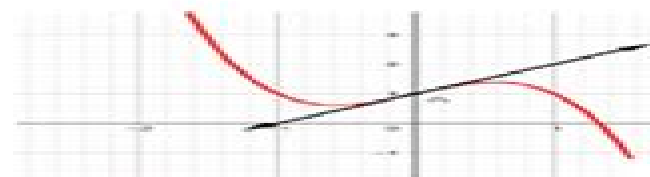
- On dit que la courbe est convexe si elle se trouve au-dessus de toutes ses tangentes
- On dit que la courbe est concave si elle se trouve au-dessous de toutes ses tangentes.
- Un point d'inflexion est un point où s'opère un changement de concavité de la courbe C_f



Graphique d'une fonction convexe



Graphique d'une fonction concave



Point d'inflexion en A

Remarque : Si f est dérivable en a et C_f traverse sa tangente en A alors le point A est un point d'inflexion

2.2 Dérivée seconde et concavité.

Théorème : Soit f une fonction deux fois dérivable sur un intervalle I .

- Si f'' est positive sur I alors C_f est convexe sur I .
- Si f'' est négative sur I alors C_f est concave sur I .

3) Si f'' s'annule en a en changeant de signe alors C_f admet un point d'inflexion en $A(a, f(a))$

Remarque : Les conditions du théorème précédent sont suffisantes ; on peut avoir une courbe convexe, concave ou un point d'inflexion sans l'existence même de la dérivée seconde.

Exemple : Soit la fonction f définie sur $\mathbb{R}$ par :

$$f(x) = \frac{1}{12}x^4 - 2x^2 + x + \frac{2}{3}$$

- Déterminer les dérivées première et seconde de la fonction f .
- Dresser le tableau de signe de $f''(x)$ et étudier la concavité de la courbe de f et déterminer les points d'inflexions s'ils existent

Solution : 1)

$$f'(x) = \left(\frac{1}{12}x^4 - 2x^2 + x + \frac{2}{3} \right)' = \frac{1}{12}4x^3 - 4x + 1 = \frac{1}{3}x^3 - 4x + 1$$

$$f''(x) = \left(\frac{1}{3}x^3 - 4x + 1 \right)' = x^2 - 4$$

$$2) f''(x) = 0 \Leftrightarrow x^2 - 4 = 0 \Leftrightarrow (x-2)(x+2) = 0 \Leftrightarrow x = -2 \text{ ou } x = 2$$



Etude Des Fonctions Maths Clair

E Durkheim



Etude Des Fonctions Maths Clair:

Reviewing **Etude Des Fonctions Maths Clair**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Etude Des Fonctions Maths Clair**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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