

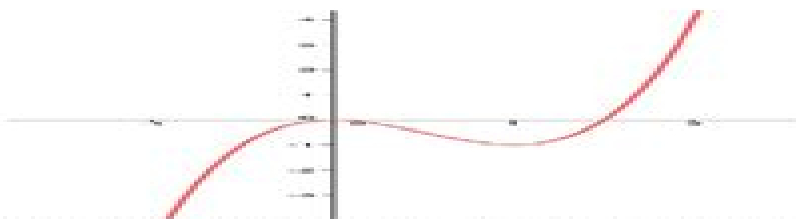
ETUDE DES FONCTIONS

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.

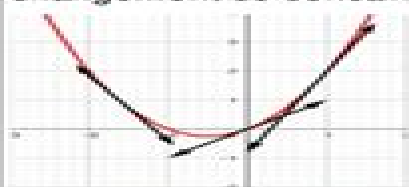
4. Que peut-on conclure ?

2) **Définition et propriétés.**

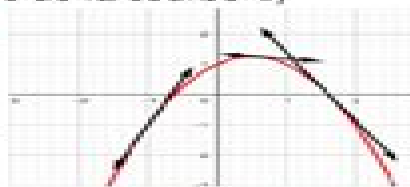
2.1 Définitions :

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

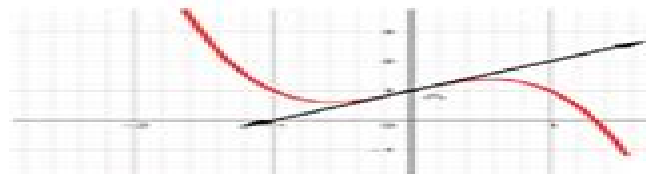
- On dit que la courbe est convexe si elle se trouve au-dessus de toutes ses tangentes
- On dit que la courbe est concave si elle se trouve au-dessous de toutes ses tangentes.
- Un point d'inflexion est un point où s'opère un changement de concavité de la courbe C_f



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)

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

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

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



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Emilie Sanchez



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