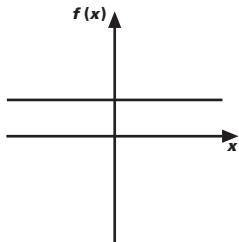


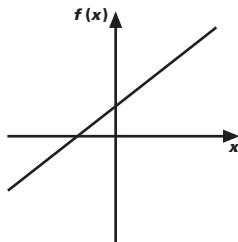
Représentation graphique de certaines fonctions

Constante



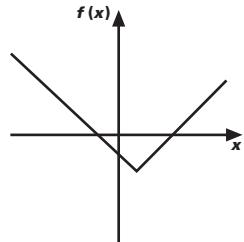
$$f(x) = a$$

Affine



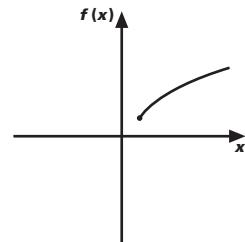
$$f(x) = ax + b$$

Valeur absolue



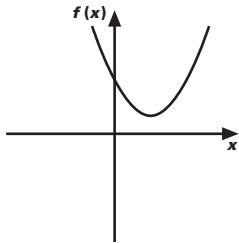
$$f(x) = a |x - h| + k$$

Racine carrée



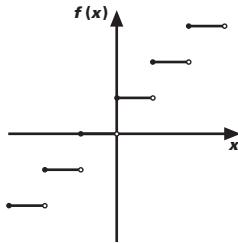
$$f(x) = a \sqrt{b(x - h)} + k$$

Quadratique



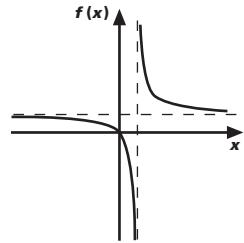
$$f(x) = a (x - h)^2 + k$$

Partie entière



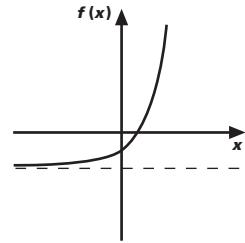
$$f(x) = a [b (x - h)] + k$$

Rationnelle



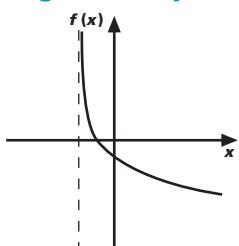
$$f(x) = \frac{a}{b(x - h)} + k$$

Exponentielle



$$f(x) = a \cdot c^{b(x - h)} + k$$

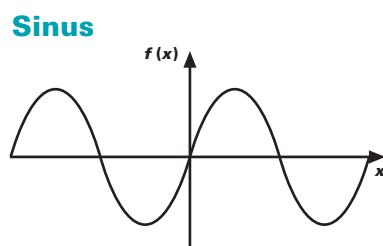
Logarithmique



$$f(x) = a \log_c b(x - h) + k$$

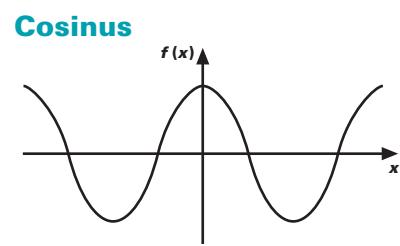
Sinusoïdales:

Sinus



$$f(x) = a \sin b(x - h) + k$$

Cosinus



$$f(x) = a \cos b(x - h) + k$$

Géométrie analytique

- Calcul de la distance entre deux points (x_1, y_1) et (x_2, y_2) :

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

- Calcul de la distance entre un point (x_1, y_1) et une droite $y = ax + b$:

$$d = \frac{|ax_1 - y_1 + b|}{\sqrt{a^2 + 1}}$$

- Calcul du point milieu d'un segment AB dont les extrémités sont A(x_1, y_1) et B(x_2, y_2):

$$x = \frac{x_1 + x_2}{2} \text{ et } y = \frac{y_1 + y_2}{2}$$