

SIGNE ET GRAPHE D'UNE FONCTION

Fonction AFFINE

Fonction 2^{ème} DEGRÉ

Fonction 3^{ème} DEGRÉ

(4^{ème})

ÉTABLIR

LE SIGNE

① ZÉROS

② SIGNE

③ GRAPHE (0.0, ...)

Exemples

$$f(x) = -\frac{2}{3}x + 6$$

$$\text{Zero: } f(x) = 0 \Leftrightarrow -\frac{2}{3}x + 6 = 0$$

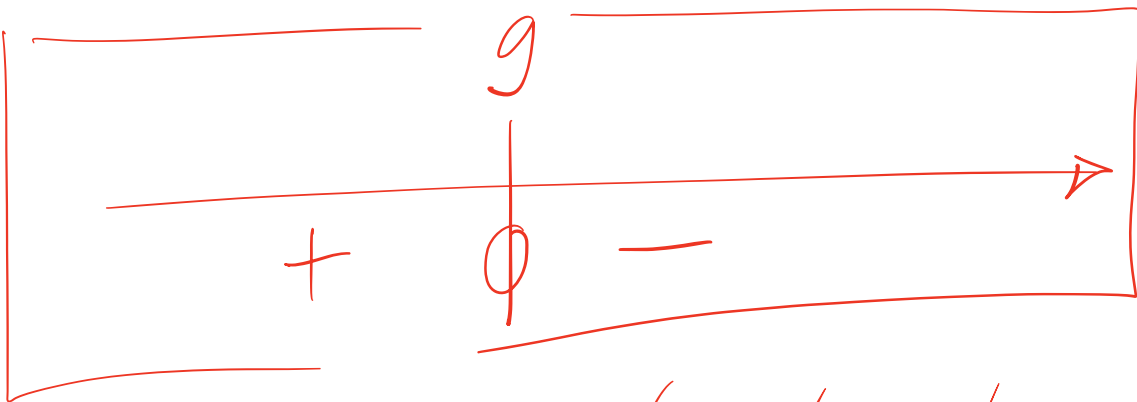
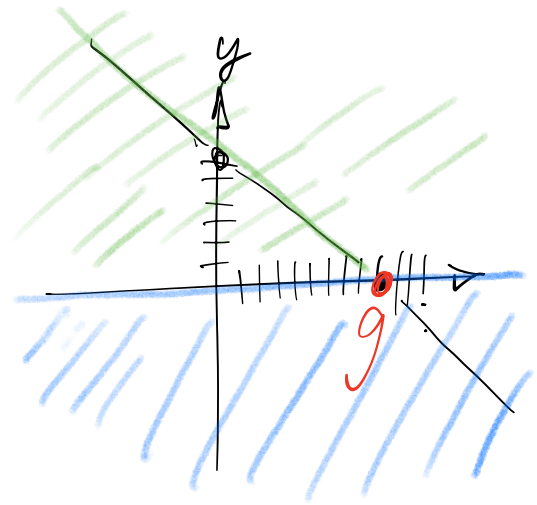
$$\Leftrightarrow -\frac{2}{3}x = -6$$

$$\Leftrightarrow -2x = -18$$

$$\Leftrightarrow x = 9$$

$\cdot 3$

$\div (-2)$



Axe des x

SIGNE de f

$$f(x) = -\frac{2}{3}x + 6$$

(pente négative \Rightarrow le graphe « descend »)

$$f(x) = \frac{4}{5}x + 1$$

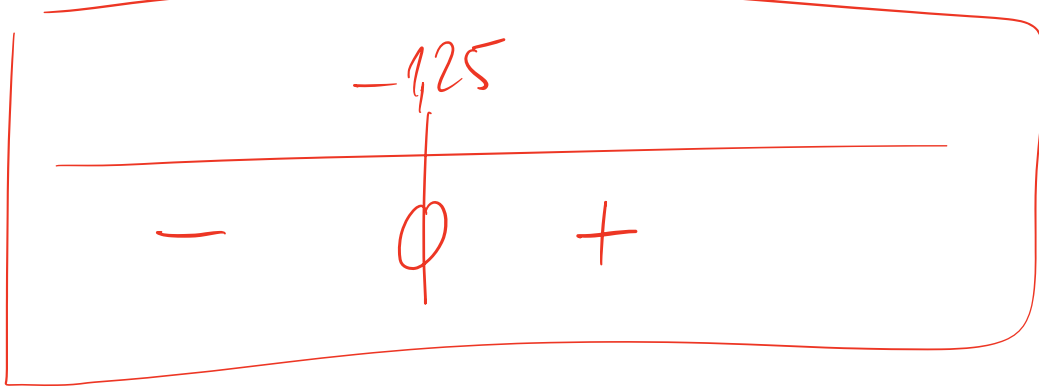
SIGNE

$$f(x) = 0 \Leftrightarrow \frac{4}{5}x + 1 = 0$$

$$\Leftrightarrow \frac{4}{5}x = -1$$

$$\Leftrightarrow x = -1,25$$

$\cdot \frac{5}{4}$

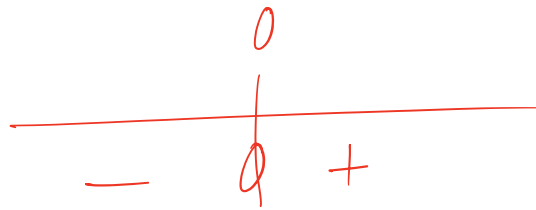


Signe de
 $f(x) = \frac{4}{5}x + 1$

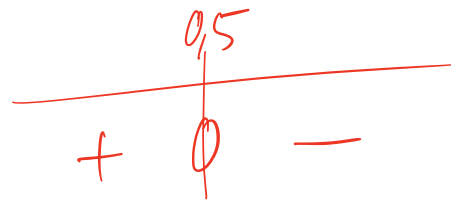
EXERCICE

Établir le signe de

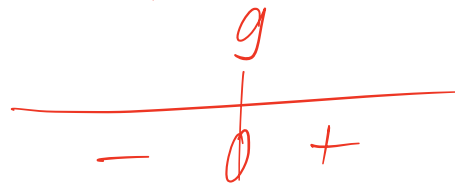
1) $f(x) = x$



2) $f(x) = 1 - 2x$



3) $f(x) = \frac{4}{3}x - 12$



4) $f(x) = -\frac{2}{5}x + 2$

