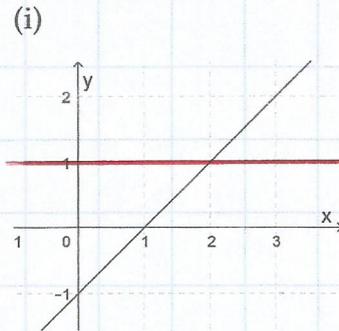
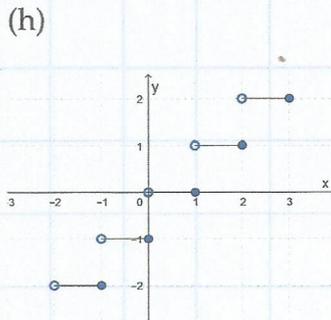
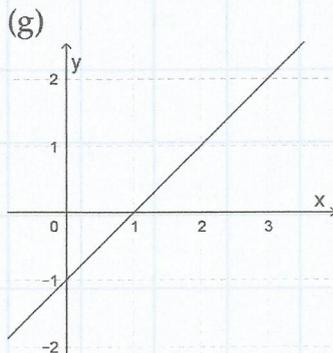
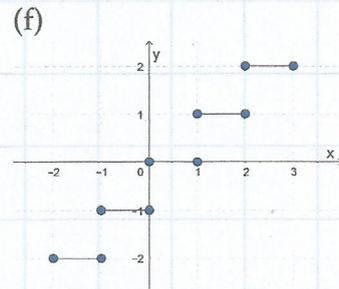
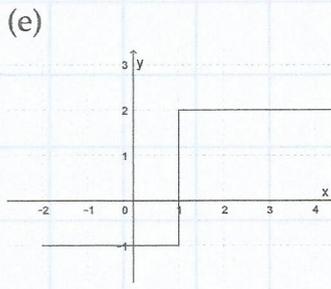
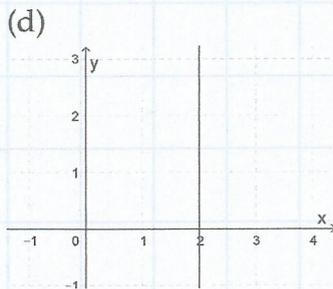
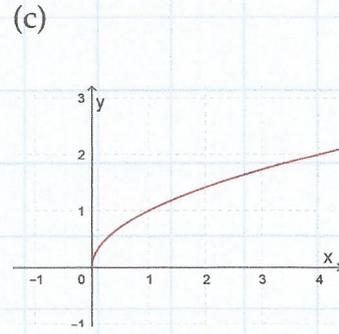
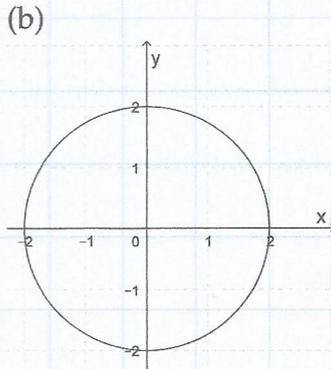
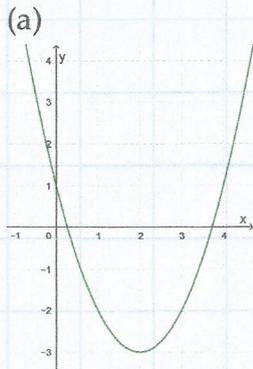


Rappels de 3ème - Fonctions : Solutions

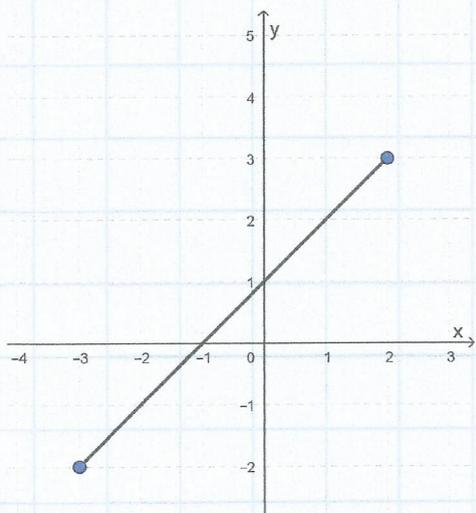
1. Tous les graphiques suivants représentent des relations. Parmi ceux-ci, quels sont ceux qui représentent une fonction ?



- a) oui
- b) non
- c) oui
- d) non
- e) non
- f) non
- g) oui
- h) oui
- i) oui

2. Pour chacune des fonctions représentées ci-dessous, déterminer le domaine, l'ensemble image, le(s) zéro(s), l'ordonnée à l'origine et compléter les égalités.

(a)



- $\text{dom}_f : [-3, 2]$

- $\text{im}_f : [-2, 3]$

- Zéro(s) : $x = -1$

- Ord. à l'origine : $y = 1$

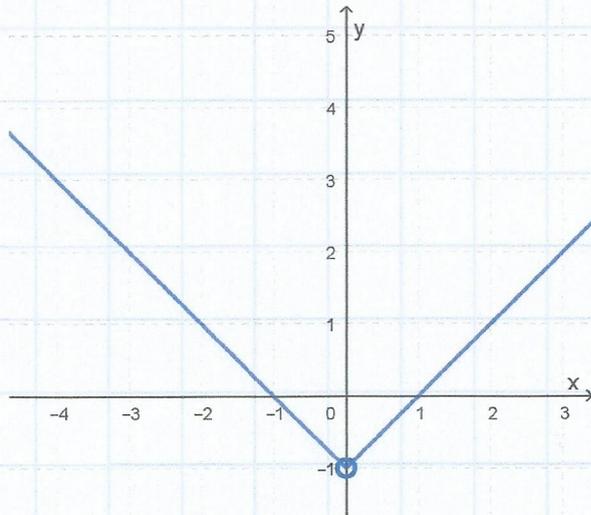
- $f(1) = 2$

- $f(-2) = -1$

- $f(\dots) = 2$

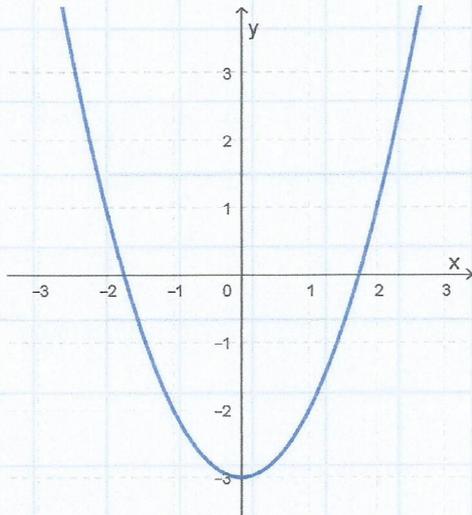
- $f(\dots) = -1$

(c)



- dom_f : \mathbb{R}_0
- im_f : $] -1, +\infty$
- Zéro(s): $x = -1$ et $x = 1$
- Ord. à l'origine: \checkmark
- $f(2) = 1$
- $f(-2) = 1$
- $f(\dots) = 2$ $x = -3$ et $x = 3$
- $f(\dots) = 0$ $x = -1$ et $x = 1$

(d)



- dom_f : \mathbb{R}

- im_f : $[-3, +\infty)$

- Zéro(s) : $x = \pm 1, 7$

- Ord. à l'origine : -3

- $f(2) = 1$

- $f(-2) = 1$

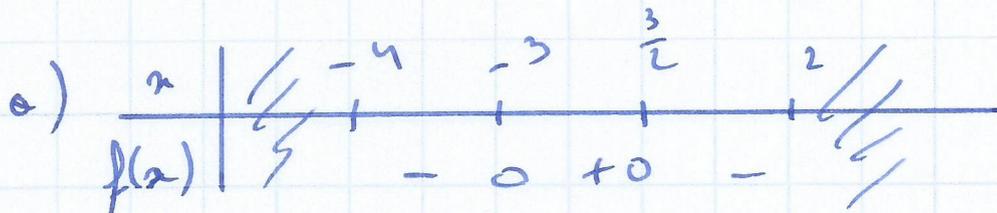
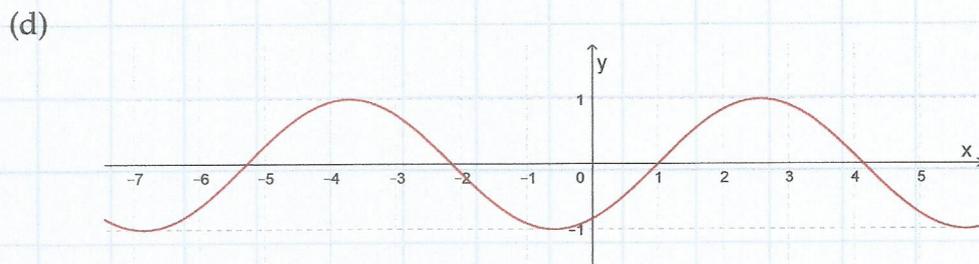
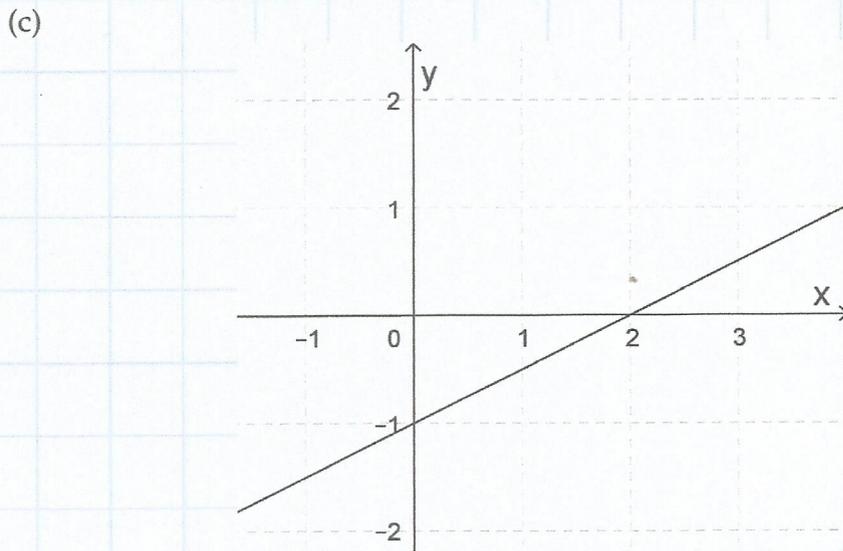
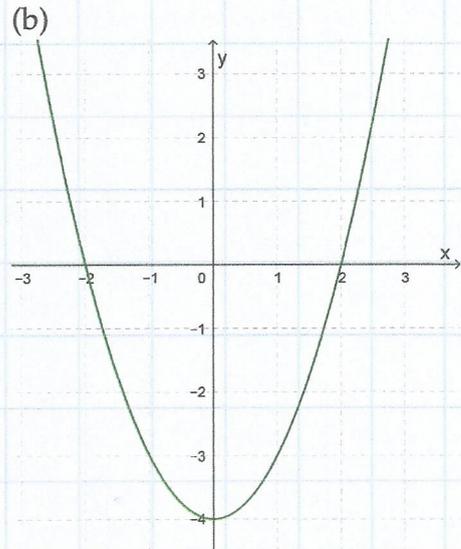
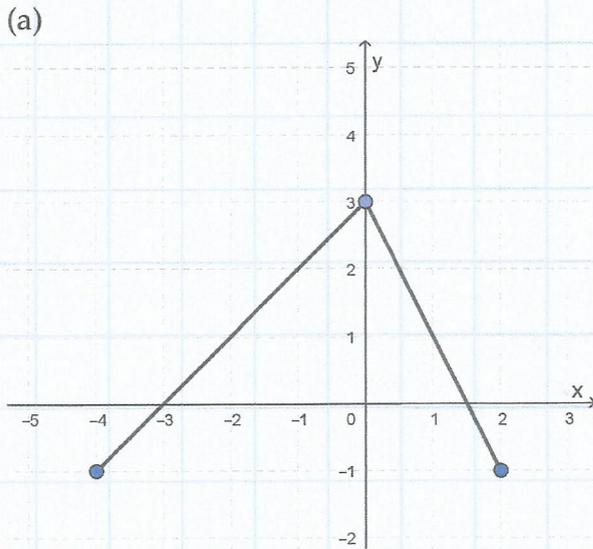
- $f(\dots) = -2$

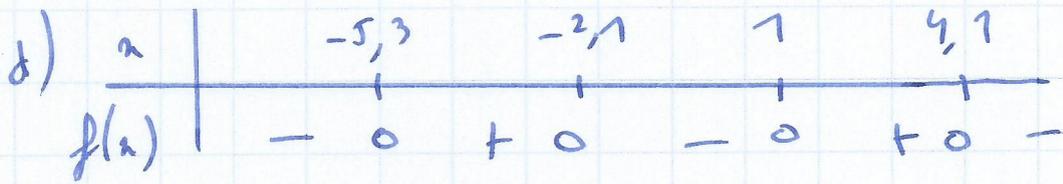
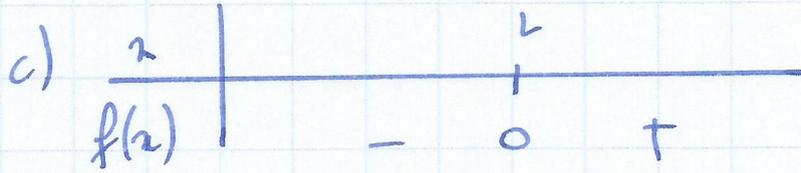
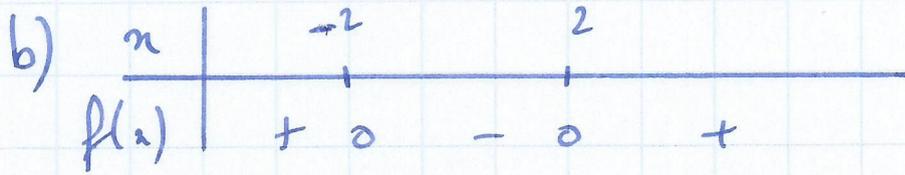
- $f(\dots) = 2$

$n = -1$ et $x = 1$

$x \leq -2, 7$ et $x \geq 2, 3$

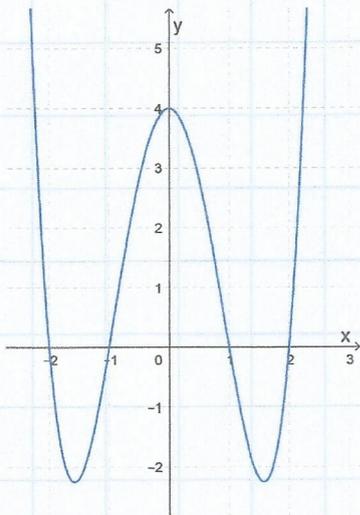
3. Etudier le signe des fonctions suivantes :





4. Etudier la variation et les extrémums des fonctions suivantes.

(a)



(b)

