

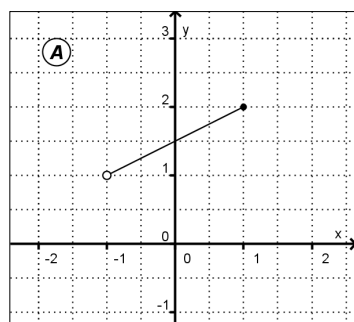
A. Généralités

2. Définitions

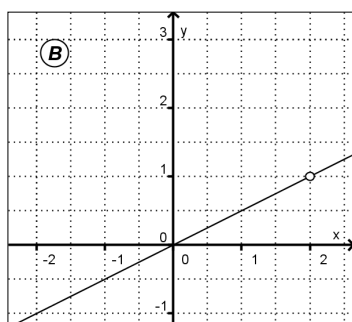
(4) Ensemble-image

Exercices :

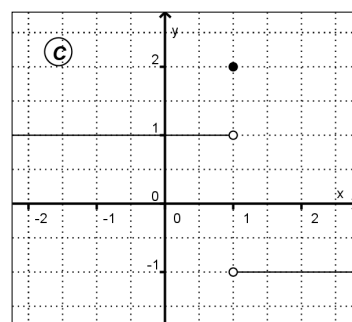
1. Donne l'ensemble-image des fonctions représentées ci-dessous :



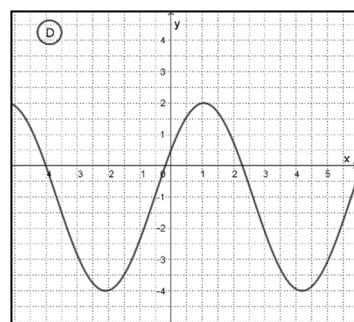
$$\text{Im } f =]1; 2]$$



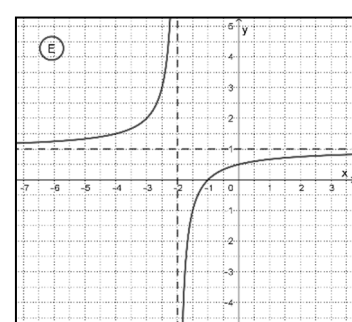
$$\text{Im } f = \mathbb{R} \setminus \{1\}$$



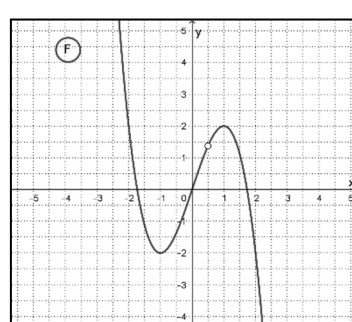
$$\text{Im } f = \{-1; 1; 2\}$$



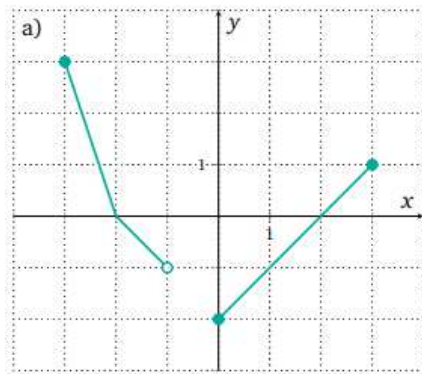
$$\text{Im } f = [-4; 2]$$



$$\text{Im } f = \mathbb{R} \setminus \{1\}$$

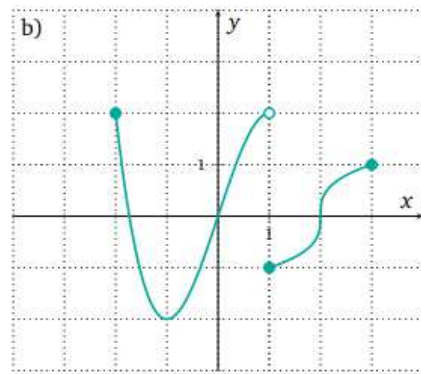


2. Détermine le domaine de définition et l'ensemble-image de chaque fonction représentée :



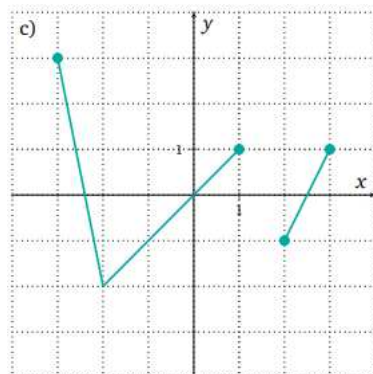
$$\text{dom } f = [-3; -1[\cup [0; 3]$$

$$\text{Im } f = [-2; 3]$$



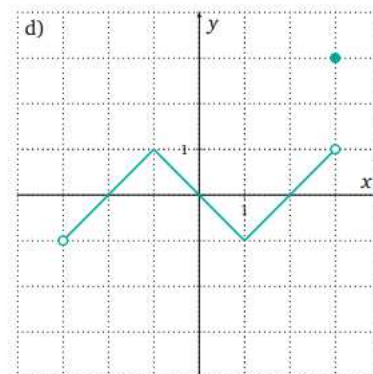
$$\text{dom } f = [-2; 3]$$

$$\text{Im } f = [-2; 2]$$



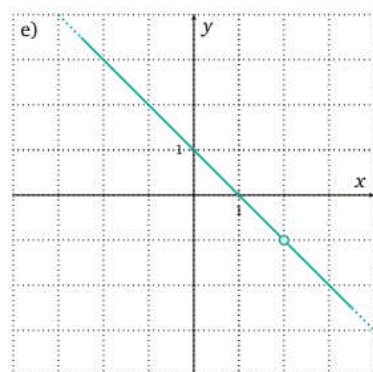
$$\text{dom } f = [-3; 1[\cup [2; 3]$$

$$\text{Im } f = [-2; 3]$$



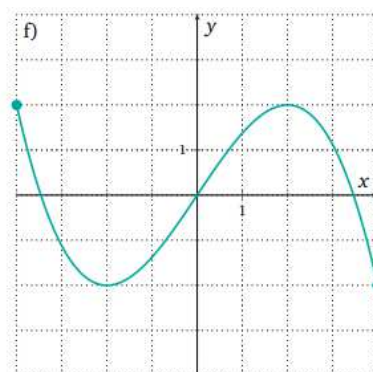
$$\text{dom } f =]-3; 3]$$

$$\text{Im } f = [-1; 1] \cup \{3\}$$



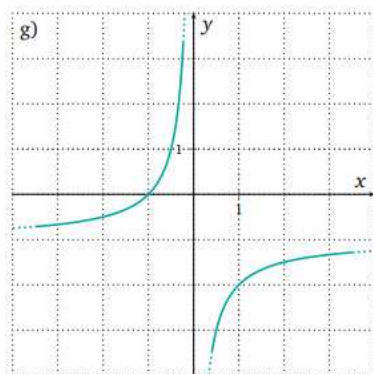
$$\text{dom } f = \mathbb{R} \setminus \{2\}$$

$$\text{Im } f = \mathbb{R} \setminus \{-1\}$$



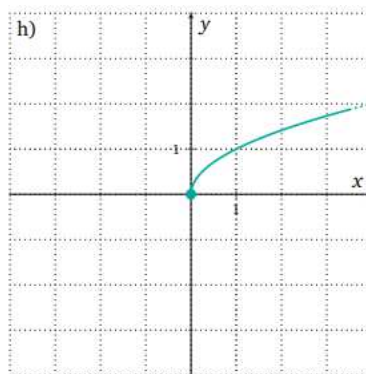
$$\text{dom } f = [-4; 4]$$

$$\text{Im } f = [-2; 2]$$



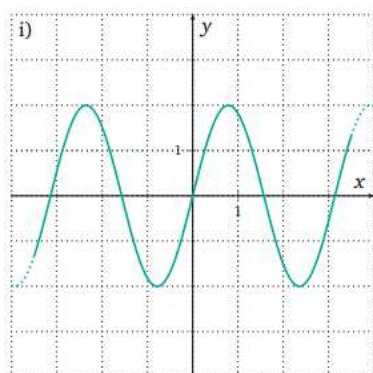
$$\text{dom } f = \mathbb{R} \setminus \{-1\}$$

$$\text{Im } f = \mathbb{R} \setminus \{-1\}$$



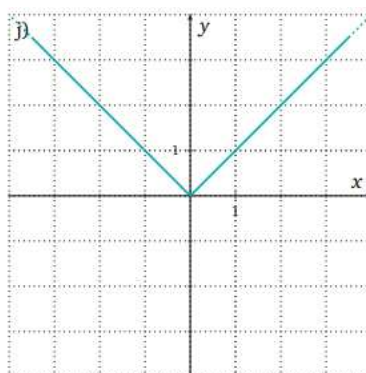
$$\text{dom } f = \mathbb{R}^+$$

$$\text{Im } f = \mathbb{R}^+$$



$$\text{dom } f = \mathbb{R}$$

$$\text{Im } f = [-2; 2]$$



$$\text{dom } f = \mathbb{R}$$

$$\text{Im } f = \mathbb{R}^+$$