



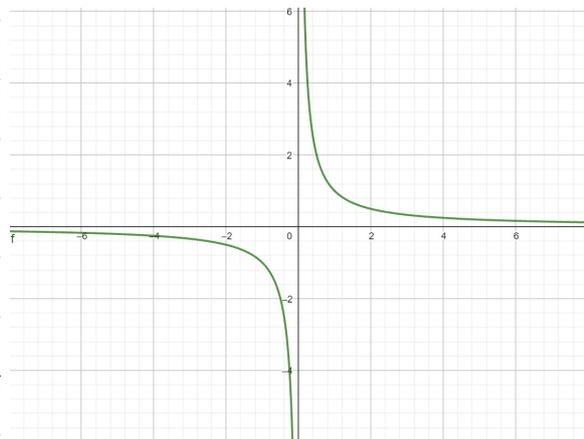
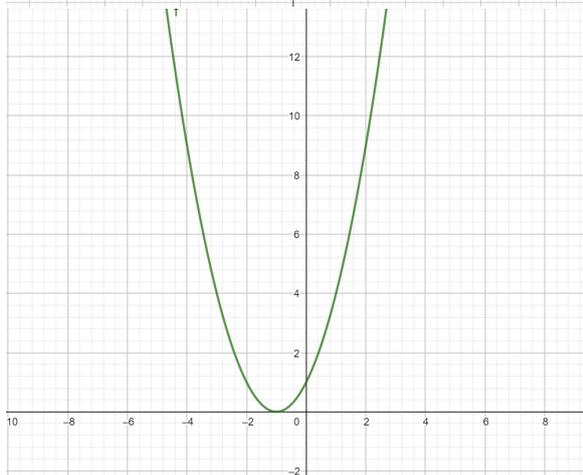
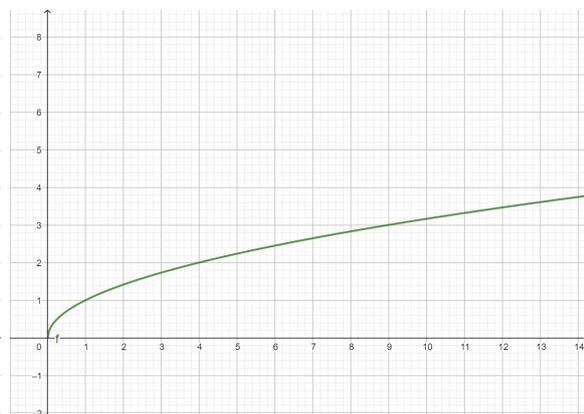
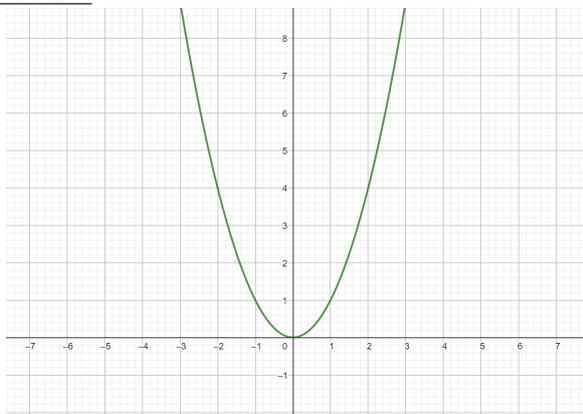
Activité d'introduction

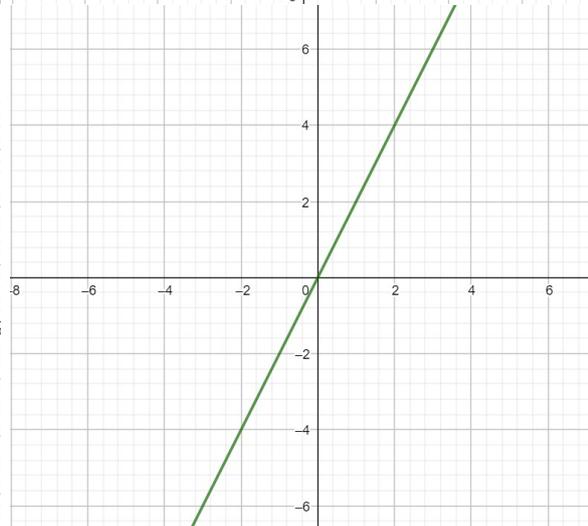
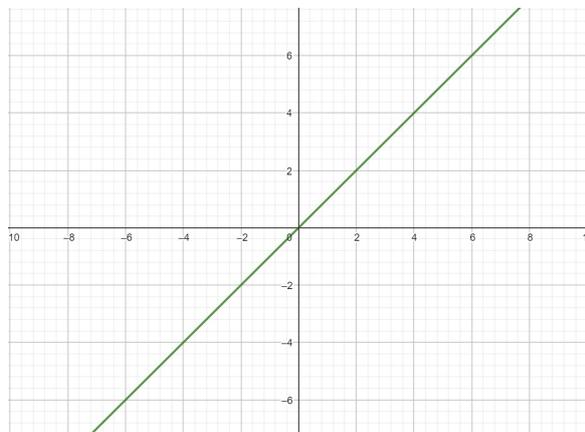
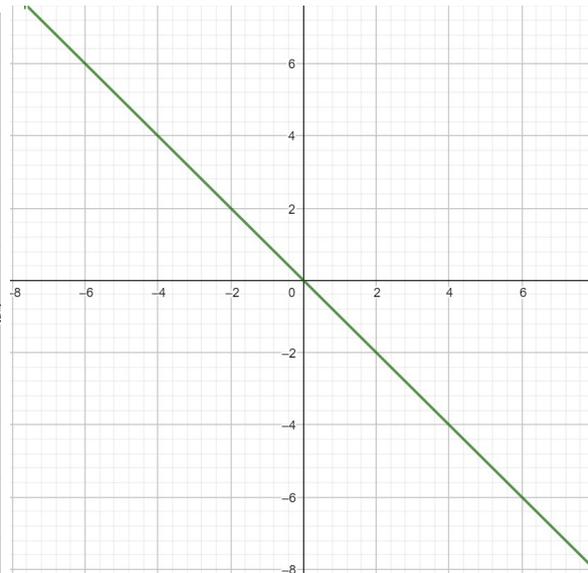
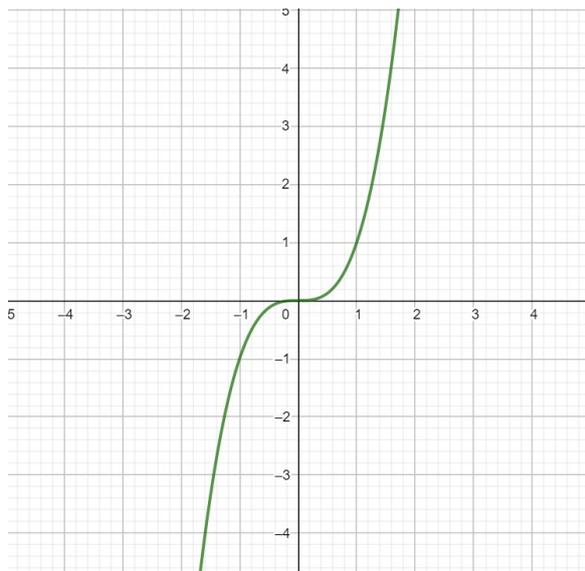
CARTE D'IDENTITÉ

Prérequis : Calcul algébrique ; Représentation graphique ; Notion de fonction ; Domaine de définition ; Coordonnées d'un point ; Intervalle ; Tableau de valeurs ; Images et antécédents

Découper les cartes suivantes et regrouper chaque courbe avec son tableau de valeur, son expression algébrique et son domaine de définition pour créer une " carte d'identité de chaque fonction ".

Niveau *





$$x \longmapsto x^2$$

$$x \longmapsto x^3$$

$$x \longmapsto (x + 1)^2$$

$$x \longmapsto \sqrt{x}$$

$$x \mapsto \frac{1}{x}$$

$$x \mapsto -x$$

$$x \mapsto 2x$$

$$x \mapsto x$$

x	-4	-2	0	2	4
f(x)	16	4	0	4	16

x	-4	-2	0	2	4
f(x)	9	1	1	9	25

x	-4	-2	0	2	4
f(x)	-64	-8	0	8	64

x	0	4	9	16	25
f(x)	0	2	3	4	5

x	-4	-2	0	2	4
f(x)	-4	-2	0	2	4

x	-4	-2	0	2	4
f(x)	4	2	0	-2	-4

x	-2	-1	0	3	6
f(x)	-4	-2	0	6	12

x	-4	-2	0,25	0,5	4
f(x)	-0,25	-0,5	4	2	0,25

 \mathbb{R}
 \mathbb{R}
 \mathbb{R}
 $[0; +\infty[$

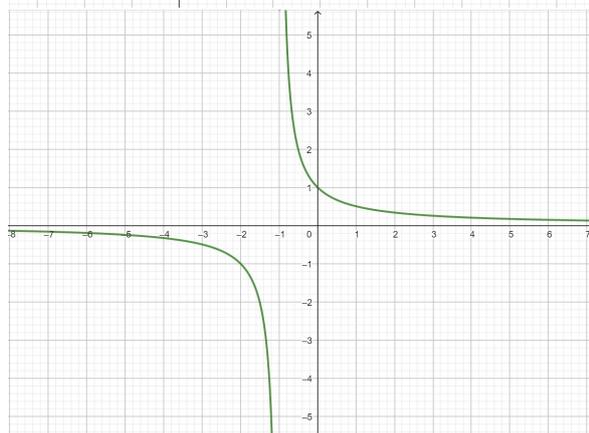
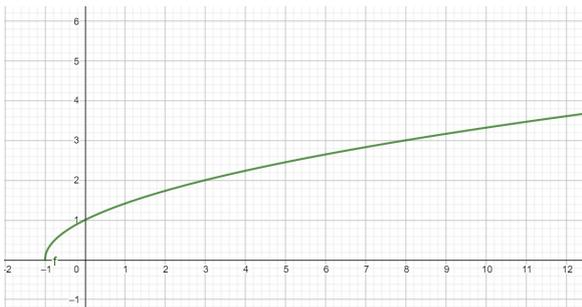
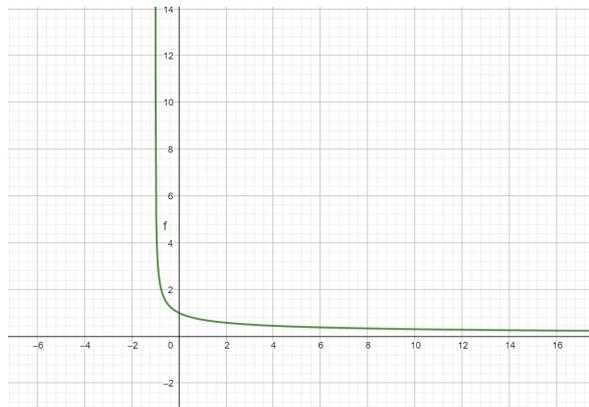
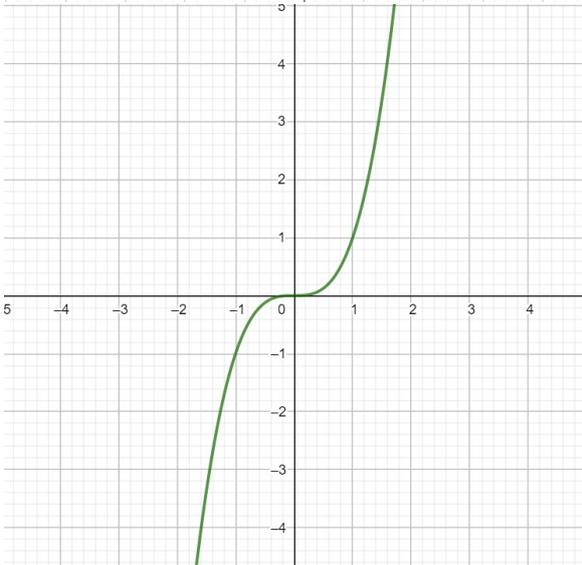
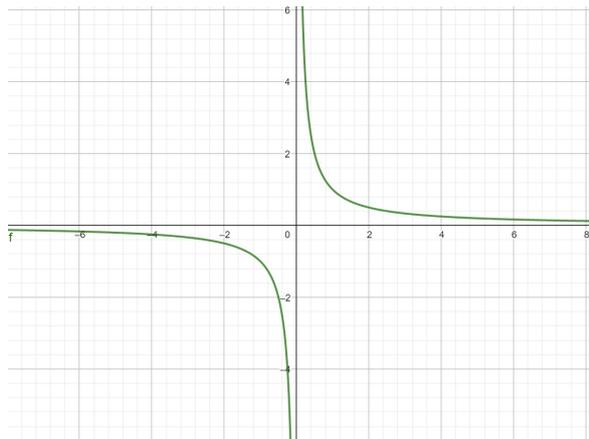
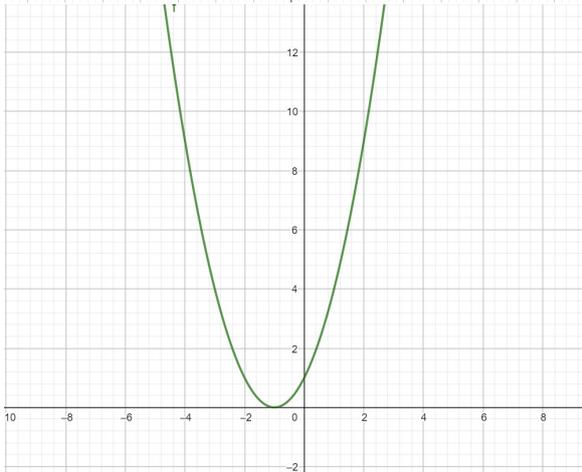
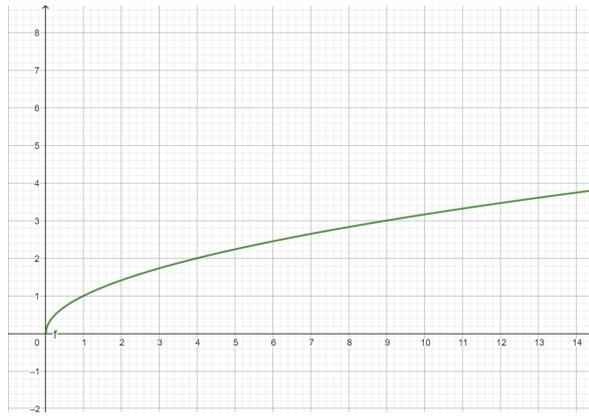
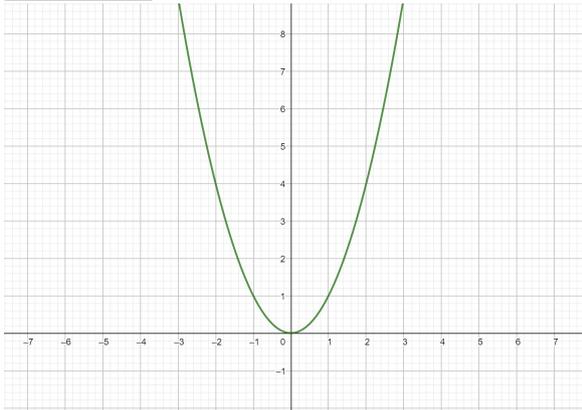
\mathbb{R}

$] - \infty; 0[\cup] 0; +\infty[$

\mathbb{R}

\mathbb{R}

Niveau **



$$x \longrightarrow x^2$$

$$x \longrightarrow x^3$$

$$x \longrightarrow (x + 1)^2$$

$$x \longrightarrow \sqrt{x}$$

$$x \longrightarrow \frac{1}{x}$$

$$x \longrightarrow \sqrt{x + 1}$$

$$x \longrightarrow \frac{1}{x+1}$$

$$x \longrightarrow \frac{1}{\sqrt{x+1}}$$

x	-4	-2	0	2	4
f(x)	16	4	0	4	16

x	-4	-2	0	2	4
f(x)	9	1	1	9	25

x	-4	-2	0	2	4
f(x)	-64	-8	0	8	64

x	0	4	9	16	25
f(x)	0	2	3	4	5

x	-5	-2	0	1	3
f(x)	-0,25	-1	1	0,5	0,25

x	3	15	24	63	99
f(x)	0,5	0,25	0,2	0,125	0,1

x	-1	0	3	8	15
f(x)	0	1	2	3	4

x	-4	-2	0,25	0,5	4
f(x)	-0,25	-0,5	4	2	0,25

 \mathbb{R}
 \mathbb{R}
 \mathbb{R}
 $[0; +\infty[$
 $] - \infty; 0[\cup] 0; +\infty[$
 $[-1; +\infty[$

$] - 1; +\infty[$ $\mathbb{R} \setminus \{-1\}$