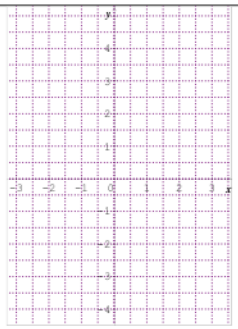
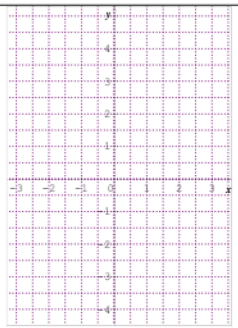
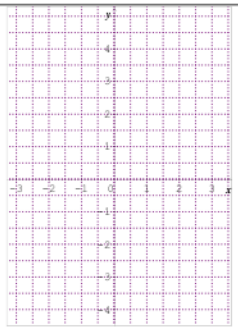
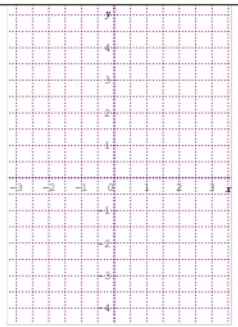
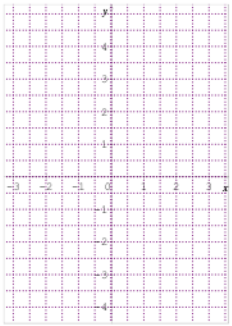
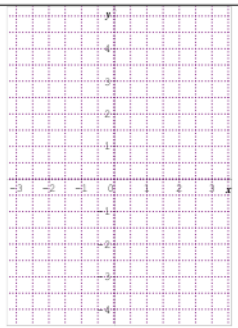
Graph	Expression	Images	Table of variation
 Parabola	$f(x)=x^2$ Square function (x squared)	$\begin{cases} f(2)= \\ f(-3)= \end{cases}$	x | - ∞ 0 +∞ $f(x)$ And : $f(-7)=49$
Graph	**Expression**	**Images**	**Table of variation**
 looks like a "V"	$f(x)=\lvert x\rvert$ Absolute value function (the absolute value of x)	$\begin{cases} f(2)= \\ f(-3)= \end{cases}$	x | - ∞ 0 +∞ $f(x)$ And : $f(-7)=7$
Graph	**Expression**	**Images**	**Table of variation**
 Hyperbola	$f(x)=\frac{1}{x}$ Reciprocal function (1 over x)	$\begin{cases} f(2)= \\ f(-3)= \end{cases}$	x | - ∞ 0 +∞ $f(x)$ 
Graph	**Expression**	**Images**	**Table of variation**
 Symmetric about the origin	$f(x)=x^3$ Cubic function (x cubed)	$\begin{cases} f(2)= \\ f(-3)= \end{cases}$	x | - ∞ 0 +∞ $f(x)$

Graph	Expression	Images	Table of variation
 Half parabola	$f(x)=\sqrt{x}$ Square root function (the square root of x)	$f(2)=$ $f(-3)$ *does not exist*	x | 0 | $+\infty$ $f(x)$ | |

Graph	Expression	Images	Table of variation
 Straight line	$f(x)=2x+1$ Linear function	$\begin{cases} f(2)= \\ f(-3)= \end{cases}$	x | $-\infty$ | $+\infty$ $f(x)$ | |

6 families

Square function

Absolute value function

Reciprocal function

Cube function

Linear function

Square root function