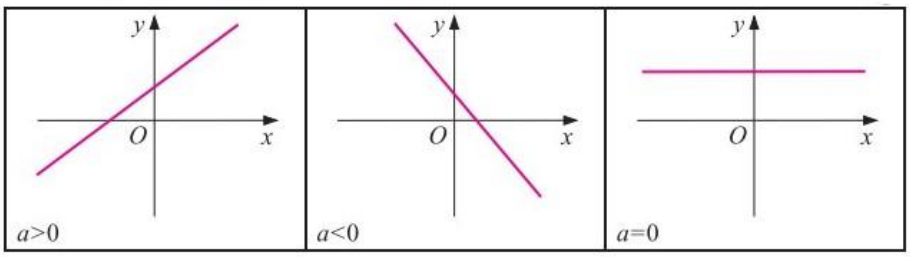
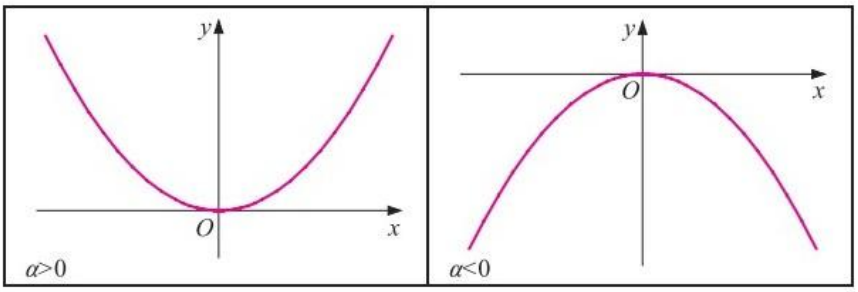
Βασικές συναρτήσεις

Η πολυωνυμική συνάρτηση $f(x) = \alpha x + \beta$.



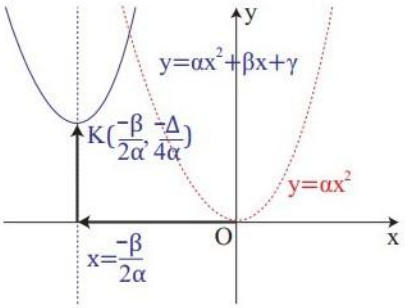
Η πολυωνυμική συνάρτηση $f(x) = \alpha x^2$, $\alpha \neq 0$.

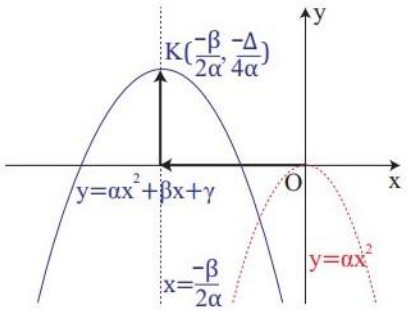


x	$-\infty$	0	$+\infty$
$f(x)=\alpha x^2$ $\alpha > 0$	$+\infty$	**0 min**	$+\infty$

x	$-\infty$	0	$+\infty$
$f(x)=\alpha x^2$ $\alpha < 0$	$-\infty$	**max 0**	$-\infty$

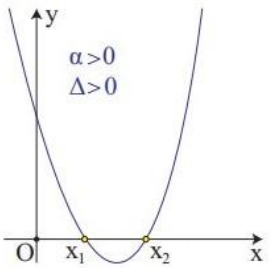
Η πολυωνυμική συνάρτηση $f(x)=\alpha x^2 + \beta x + \gamma$ ($\alpha \neq 0$)

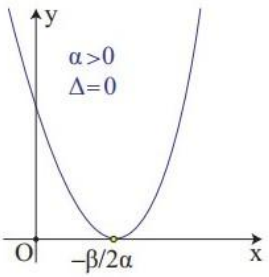


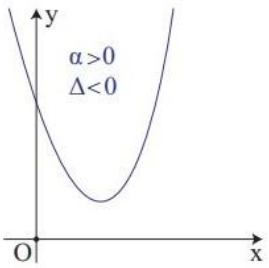


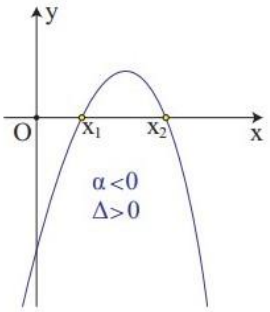
x	$-\infty$	$\frac{-\beta}{2\alpha}$	$+\infty$
$f(x)=\alpha x^2+\beta x+\gamma$ $\alpha > 0$	$+\infty$	$\frac{-\Delta}{4\alpha}$ min	$+\infty$

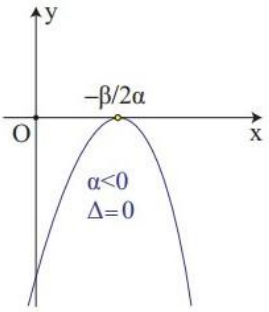
x	$-\infty$	$\frac{-\beta}{2\alpha}$	$+\infty$
$f(x)=\alpha x^2+\beta x+\gamma$ $\alpha < 0$	$-\infty$	$\frac{-\Delta}{4\alpha}$ max	$-\infty$

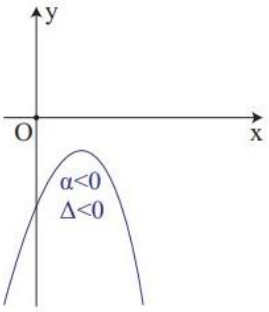




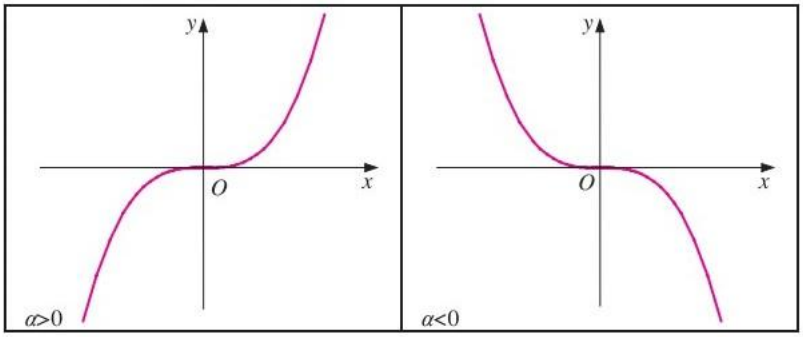




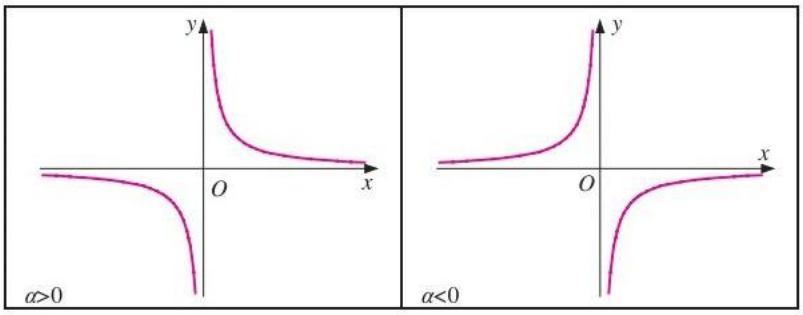




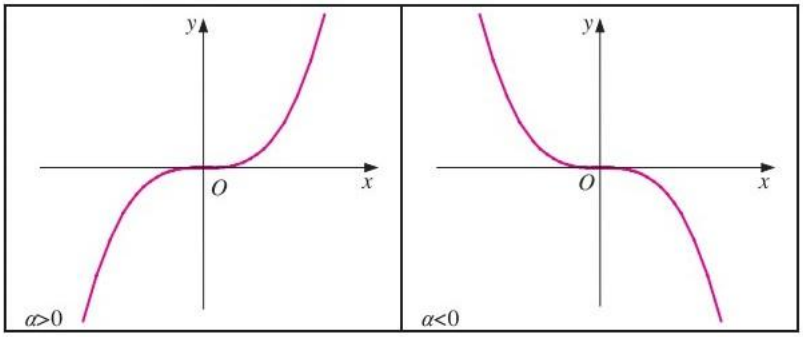
Η πολυωνυμική συνάρτηση $f(x) = \alpha x^3$, $\alpha \neq 0$.



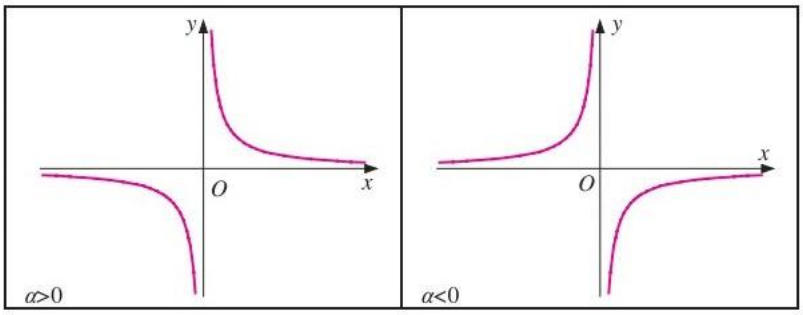
Η ρητή συνάρτηση $f(x) = \dfrac{\alpha}{x}$, $\alpha \neq 0$.



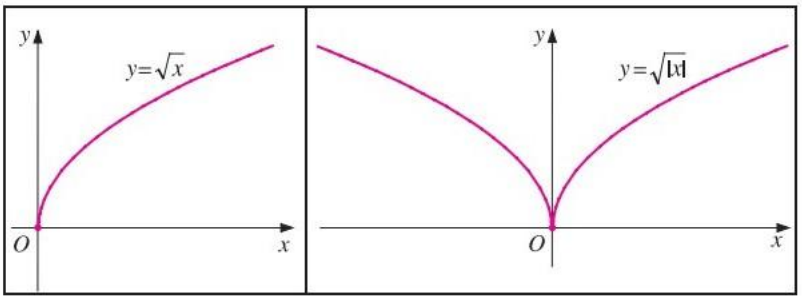
Η πολυωνυμική συνάρτηση $f(x) = \alpha x^3$, $\alpha \neq 0$.



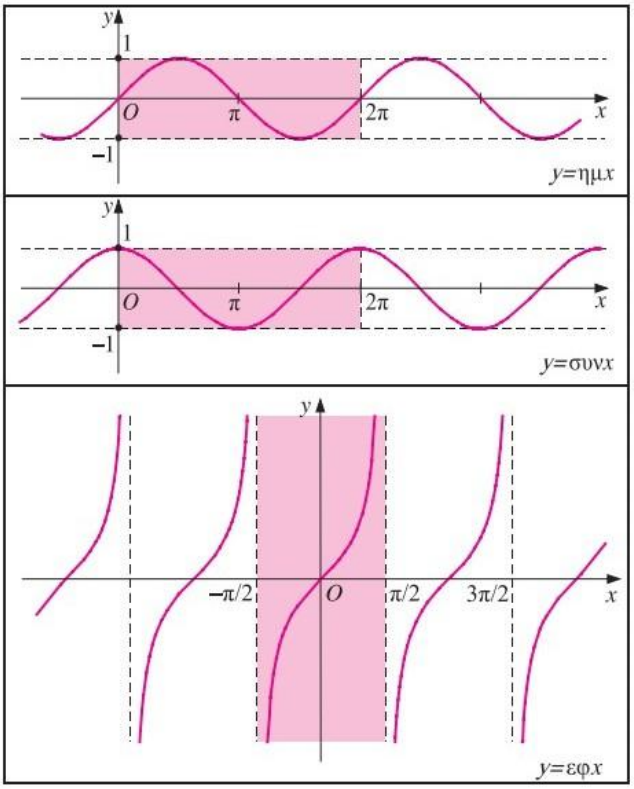
Η ρητή συνάρτηση $f(x) = \dfrac{\alpha}{x}$, $\alpha \neq 0$.



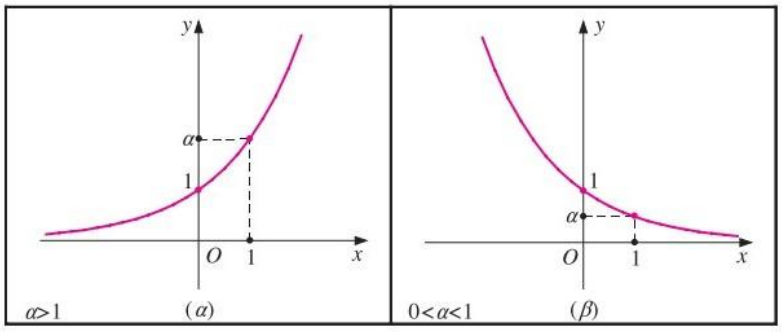
Οι συναρτήσεις $f(x)=\sqrt{x}$, $g(x)=\sqrt{|x|}$.



Οι τριγωνικές συναρτήσεις: $f(x)=\eta\mu x$, $f(x)=\sigma\upsilon\nu x$, $f(x)=\varepsilon\varphi x$.



Η εκθετική συνάρτηση $f(x)=\alpha^x$, $0<\alpha\neq 1$.



Η λογαριθμική συνάρτηση $f(x) = \log_\alpha x$, $0 < \alpha \neq 1$.