

FUNZIONI POLINOMIALI - DOMINIO e CODOMINIO

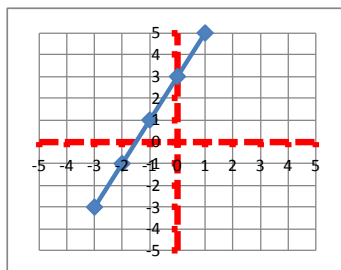
A Cura di Enzo Exposito

I grafici sono approssimati

FUNZIONE con $a > 0$	Dominio	CoDominio	FUNZIONE con $a = 0$	D e CoD	FUNZIONE con $a < 0$	Dominio	CoDominio
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Retta $a > 0$
 $y = a \cdot x + b$
 $y = 2 \cdot x + 3$

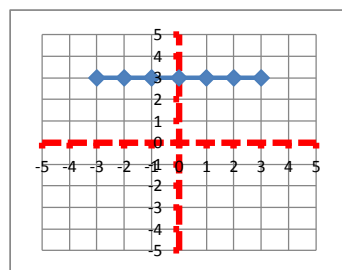
Insieme Num Reali
 $R =]-\infty; +\infty[$
 $R = (-\infty; +\infty)$



Dominio
 $D = R$

CoDominio
 $CD = R$

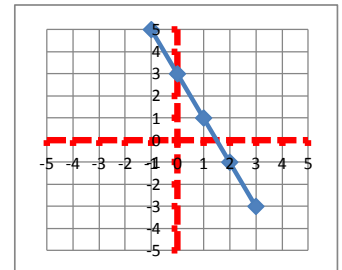
Retta $a = 0$
 $y = a \cdot x + b$
 $y = 0 \cdot x + 3$



Dominio
 $D = R$

CoDominio
 $CD = \{b\}$

Retta $a < 0$
 $y = a \cdot x + b$
 $y = -2 \cdot x + 3$

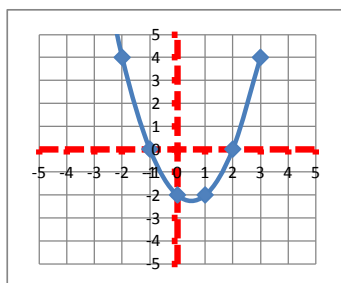


Insieme Num Reali
 $R =]-\infty; +\infty[$
 $R = (-\infty; +\infty)$

Dominio
 $D = R$

CoDominio
 $CD = R$

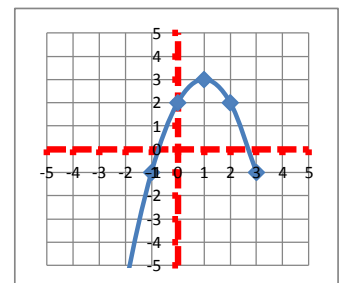
Parabola $a > 0$
 $y = a \cdot x^2 + b \cdot x + c$
 $y = 1 \cdot x^2 - 1 \cdot x - 2$



Dominio
 $D = R$

CoDominio
 $CD = [y_v; +\infty[$
 $y_v = -2,25$

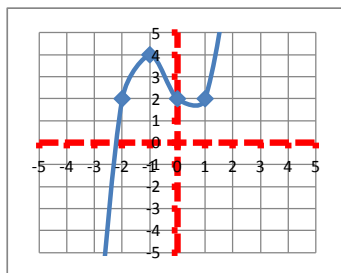
Parabola $a < 0$
 $y = a \cdot x^2 + b \cdot x + c$
 $y = -1 \cdot x^2 + 2 \cdot x + 2$



Dominio
 $D = R$

CoDominio
 $CD =]-\infty; y_v]$
 $y_v = 3,00$

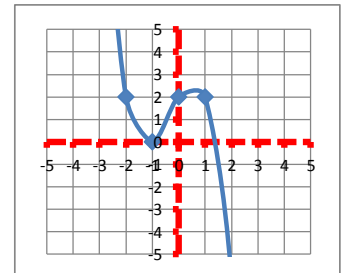
Cubica $a > 0$
 $y = a \cdot x^3 + b \cdot x^2 + c \cdot x + d$
 $y = 1 \cdot x^3 + 1 \cdot x^2 - 2 \cdot x + 2$



Dominio
 $D = R$

CoDominio
 $CD = R$

Cubica $a < 0$
 $y = a \cdot x^3 + b \cdot x^2 + c \cdot x + d$
 $y = -1 \cdot x^3 - 1 \cdot x^2 + 2 \cdot x + 2$



Dominio
 $D = R$

CoDominio
 $CD = R$

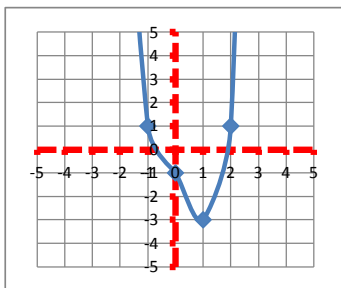
I grafici sono approssimati

FUNZIONE con $a>0$	Dominio	CoDominio
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FUNZIONE con $a<0$	Dominio	CoDominio
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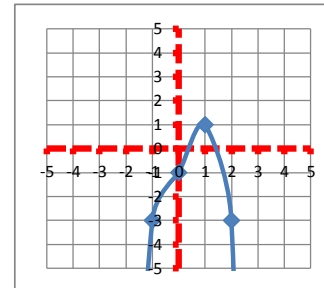
Quartica $a>0$
$y = a \cdot x^4 + b \cdot x^3 + c \cdot x^2 + d \cdot x + e$
$y = 1 \cdot x^4 + -1 \cdot x^3 + -1 \cdot x^2 + -1 \cdot x + -1$

Quartica $a<0$
$y = a \cdot x^4 + b \cdot x^3 + c \cdot x^2 + d \cdot x + e$
$y = -1 \cdot x^4 + 1 \cdot x^3 + 1 \cdot x^2 + 1 \cdot x + -1$



Dominio
$D = \mathbb{R}$

CoDominio
$CD = [y_{\min}; +\infty[$
$y_{\min} \cong -3,0$

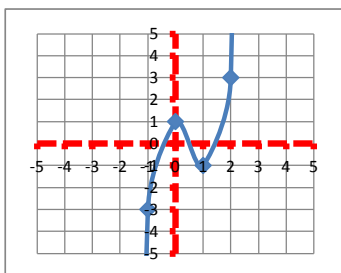


Dominio
$D = \mathbb{R}$

CoDominio
$CD =]-\infty; y_{\max}]$
$y_{\max} \cong 1,0$

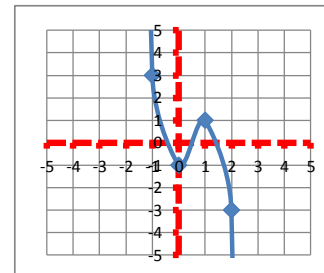
Quintica $a>0$
$y = a \cdot x^5 + b \cdot x^4 + c \cdot x^3 + d \cdot x^2 + e \cdot x + f$
$y = 1 \cdot x^5 + -2 \cdot x^4 + 1 \cdot x^3 + -1 \cdot x^2 + -1 \cdot x + 1$

Quintica $a<0$
$y = a \cdot x^5 + b \cdot x^4 + c \cdot x^3 + d \cdot x^2 + e \cdot x + f$
$y = -1 \cdot x^5 + 2 \cdot x^4 + -1 \cdot x^3 + 1 \cdot x^2 + 1 \cdot x + -1$



Dominio
$D = \mathbb{R}$

CoDominio
$CD = \mathbb{R}$

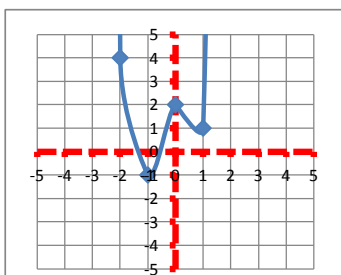


Dominio
$D = \mathbb{R}$

CoDominio
$CD = \mathbb{R}$

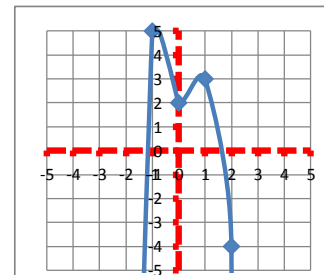
Sestica $a>0$
$y = a \cdot x^6 + b \cdot x^5 + c \cdot x^4 + d \cdot x^3 + e \cdot x^2 + f \cdot x + g$
$y = 1 \cdot x^6 + 1 \cdot x^5 + -1 \cdot x^4 + 1 \cdot x^3 + -2 \cdot x^2 + -1 \cdot x + 2$

Sestica $a<0$
$y = a \cdot x^6 + b \cdot x^5 + c \cdot x^4 + d \cdot x^3 + e \cdot x^2 + f \cdot x + g$
$y = -1 \cdot x^6 + 1 \cdot x^5 + 2 \cdot x^4 + -1 \cdot x^3 + 1 \cdot x^2 + -1 \cdot x + 2$



Dominio
$D = \mathbb{R}$

CoDominio
$CD = [y_{\min}; +\infty[$
$y_{\min} \cong -1,0$



Dominio
$D = \mathbb{R}$

CoDominio
$CD =]-\infty; y_{\max}]$
$y_{\max} \cong 5,0$