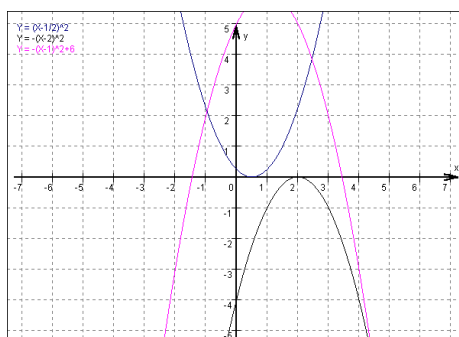
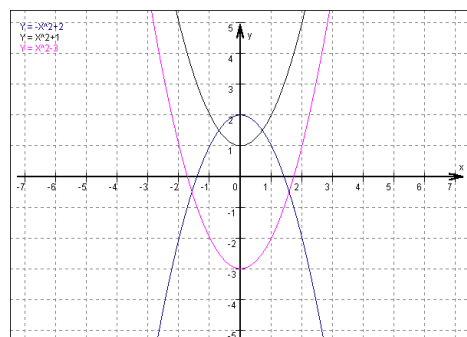


Lösungen:

Aufgabe 1:

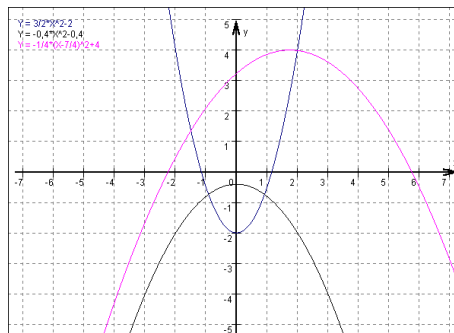
Funktion	Scheitel	Form			Öffnung		Nullstellen		
		ge- streckt	normal	ge- staucht	nach oben	nach unten			
$y = -3(x+4)^2 - 2$	S (-4 / -2)	X					X	keine	keine
$y = \frac{2}{5}x^2 - 3$	S (0 / -3)			X	X			N ₁ (2,7/0)	N ₂ (-2,7/0)
$y = -0,2x^2$	S (0 / 0)			X		X		N ₁ (0/0)	---
$y = -x^2$	S (0 / 0)		X			X		N ₁ (0/0)	---
$y = (x+7,2)^2$	S (-7,2 / 0)		X		X			N ₁ (-7,2/0)	---
$y = \frac{1}{8}(x-5)^2$	S (5 / 0)			X	X			N ₁ (5/0)	---
$y = 0,1(x+0,5)^2$	S (-0,5 / 0)			X	X			N ₁ (-0,5/0)	---
$y = -7(x - \frac{2}{3})^2$	S ($\frac{2}{3}$ / 0)	X					X	N ₁ ($\frac{2}{3}$ / 0)	---
$y = (x-3)^2 + 1$	S (3 / 1)		X			X		---	---
$y = -(x-1)^2 + 6$	S (1 / 6)		X				X	N ₁ (-1,5/0)	N ₂ (3,5/0)
$y = 1,4(x+3)^2 - 2,2$	S (-3 / -2,2)	X				X		N ₁ (-4,3/0)	N ₂ (-1,7/0)
$y = x^2 + 4x + 5$ (Vorsicht!!)	S (-2 / 1)		X			X		---	---
$y = x^2 - 1$	S (0 / -1)		X			X		N ₁ (1/0)	N ₂ (-1/0)
$y = (x+1)^2 - 4$	S (-1 / -4)		X			X		N ₁ (1/0)	N ₂ (-3/0)
$y = -x^2 - 2,5$	S (0 / -2,5)		X				X	---	---

Aufgabe 2:



Aufgabe 3:

x =	-3	-2	-1	0	1	2	3
a)	11,5	4,0	-0,5	-2,0	-0,5	4,0	11,5
b)	-4,0	-2,0	-0,8	-0,4	-0,8	-2,0	-4,0
c)	-1,6	0,5	2,1	3,2	3,9	4,0	3,6



Aufgabe 4:

A₁ (2/1) A₂ (-2/1) B₁ (1,7/0) B₂ (-1,7/0) C₁ (2,45/3) C₂ (-2,45/3)
 [Es gibt jeweils zwei Punkte!!!]

Aufgabe 5:

y₁ = (x+3)² y₂ = x² y₃ = x² - 3 y₄ = (x-5)² + 2 y₅ = -(x+2)² - 1