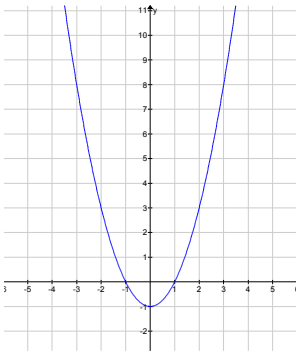


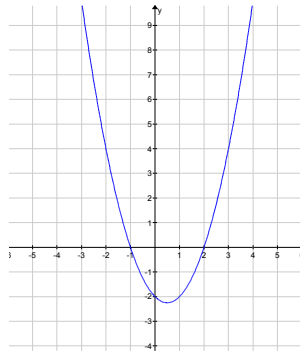
Quadratische Funktionen und ihre Schaubilder

Entlang den dickeren Linien ausschneiden; jeweils das Schaubild auf einem Kärtchen gehört zu der Funktionsgleichung auf dem nächsten Kärtchen

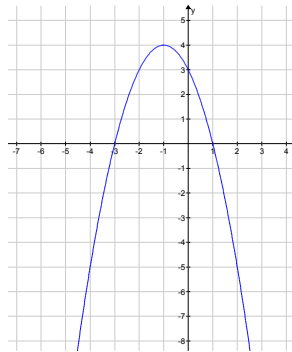
$$f(x) = \frac{1}{2}x^2 + x - 4$$



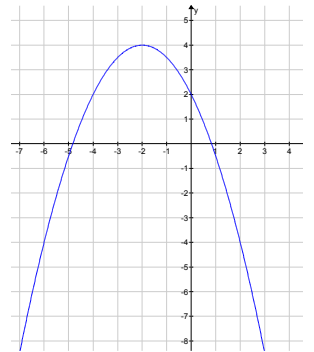
$$f(x) = -2x^2 - 4x + 5$$



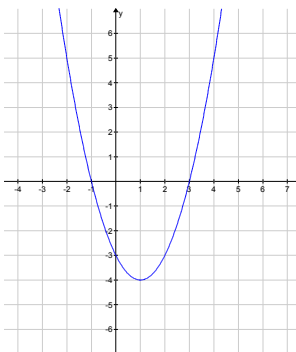
$$f(x) = 2x^2 - 4x - 4$$



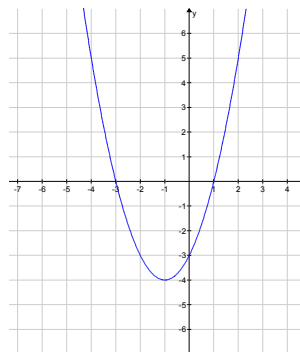
$$f(x) = \frac{1}{4}x^2 - 4$$



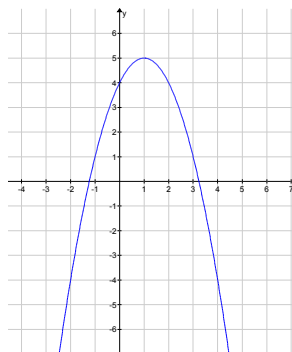
$$f(x) = x^2 - 1$$



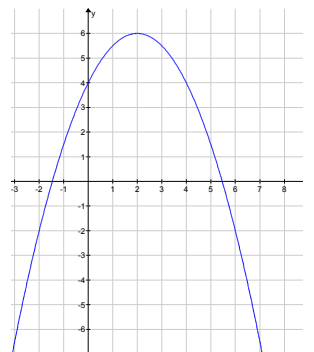
$$f(x) = x^2 - x - 2$$



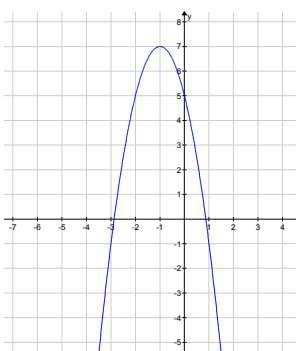
$$f(x) = -x^2 - 2x + 3$$



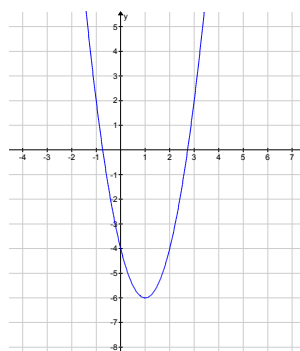
$$f(x) = -\frac{1}{2}x^2 - 2x + 2$$



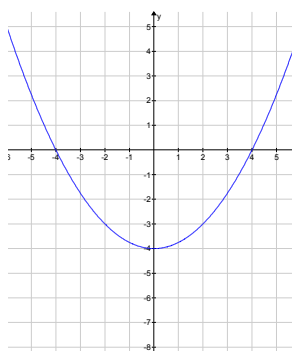
$$f(x) = x^2 - 2x - 3$$



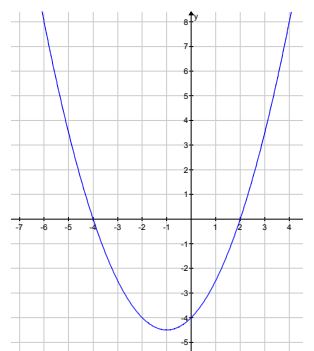
$$f(x) = x^2 + 2x - 3$$



$$f(x) = -x^2 + 2x + 4$$



$$f(x) = -\frac{1}{2}x^2 + 2x + 4$$



So findet man die Schaubilder:

$$f(x) = -2x^2 + 4x + 3$$

Parabel nach unten geöffnet Scheitel bei $x = -b/2a$ Schnittpunkt mit der y-Achse (0|3)
Parabel gestreckt: vom Scheitel aus 1 nach rechts/links und 2 nach oben (unten)