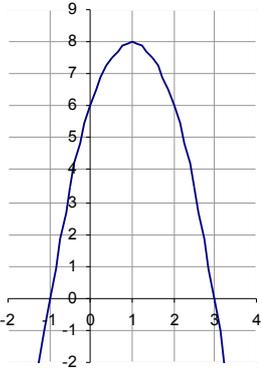
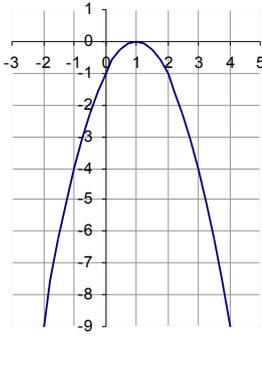
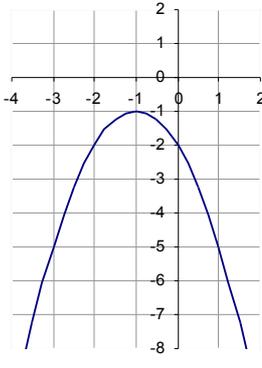
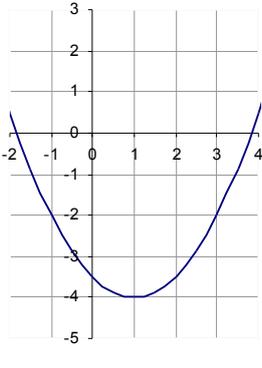
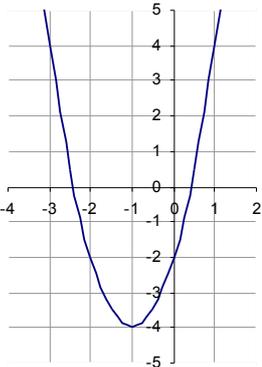
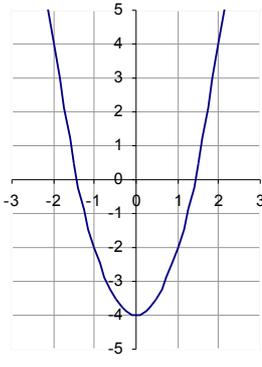
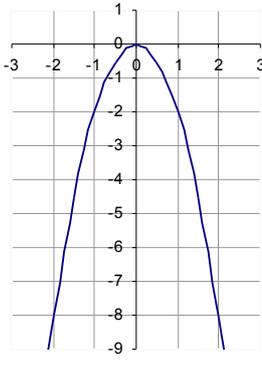
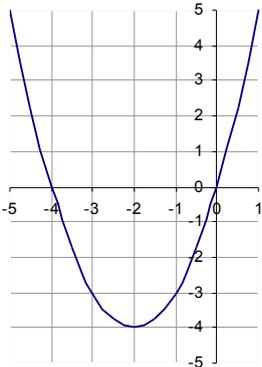
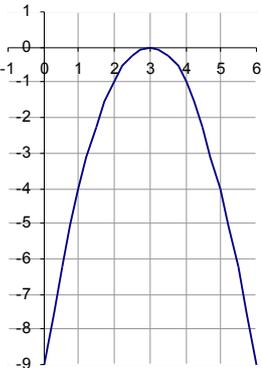
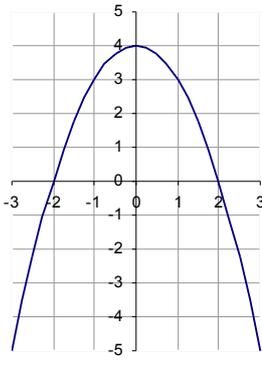
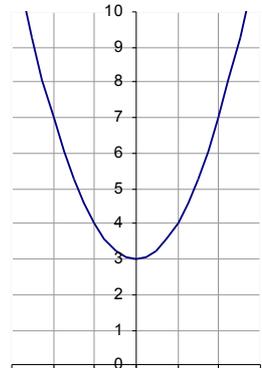
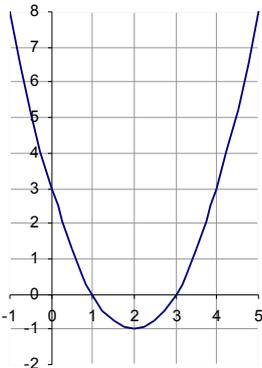


Quadratische Funktionen und ihre Schaubilder

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

| | | | |
|--|---|--|---|
| $f(x) = (x-2)^2 - 1$ | $f(x) = -(x-3)^2$ | $f(x) = -x^2 + 4$ | $f(x) = x^2 + 3$ |
|  |  |  |  |
| $f(x) = -2(x-1)^2 + 8$ | $f(x) = -(x-1)^2$ | $f(x) = -(x+1)^2 - 1$ | $f(x) = 0,5(x-1)^2 - 4$ |
|  |  |  |  |
| $f(x) = 2(x+1)^2 - 4$ | $f(x) = 2x^2 - 4$ | $f(x) = -2x^2$ | $f(x) = (x+2)^2 - 4$ |
|  |  |  |  |

So findet man die Schaubilder:

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

Parabel nach unten geöffnet Parabel um 4 nach links verschoben Parabel um 3 nach oben verschoben
Parabel gestreckt: vom Scheitel aus 1 nach rechts/links und 2 nach oben (unten)