

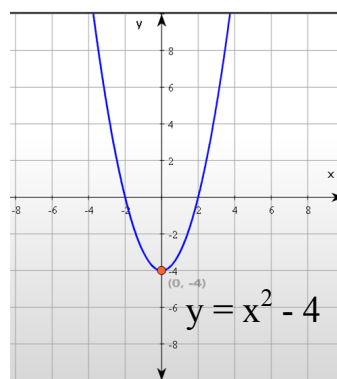
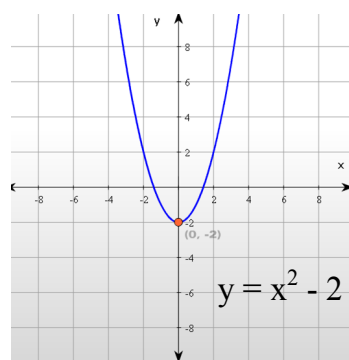
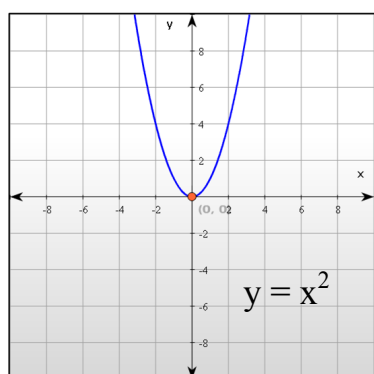
# Grafieken veranderen

## Hoofdstuk 8

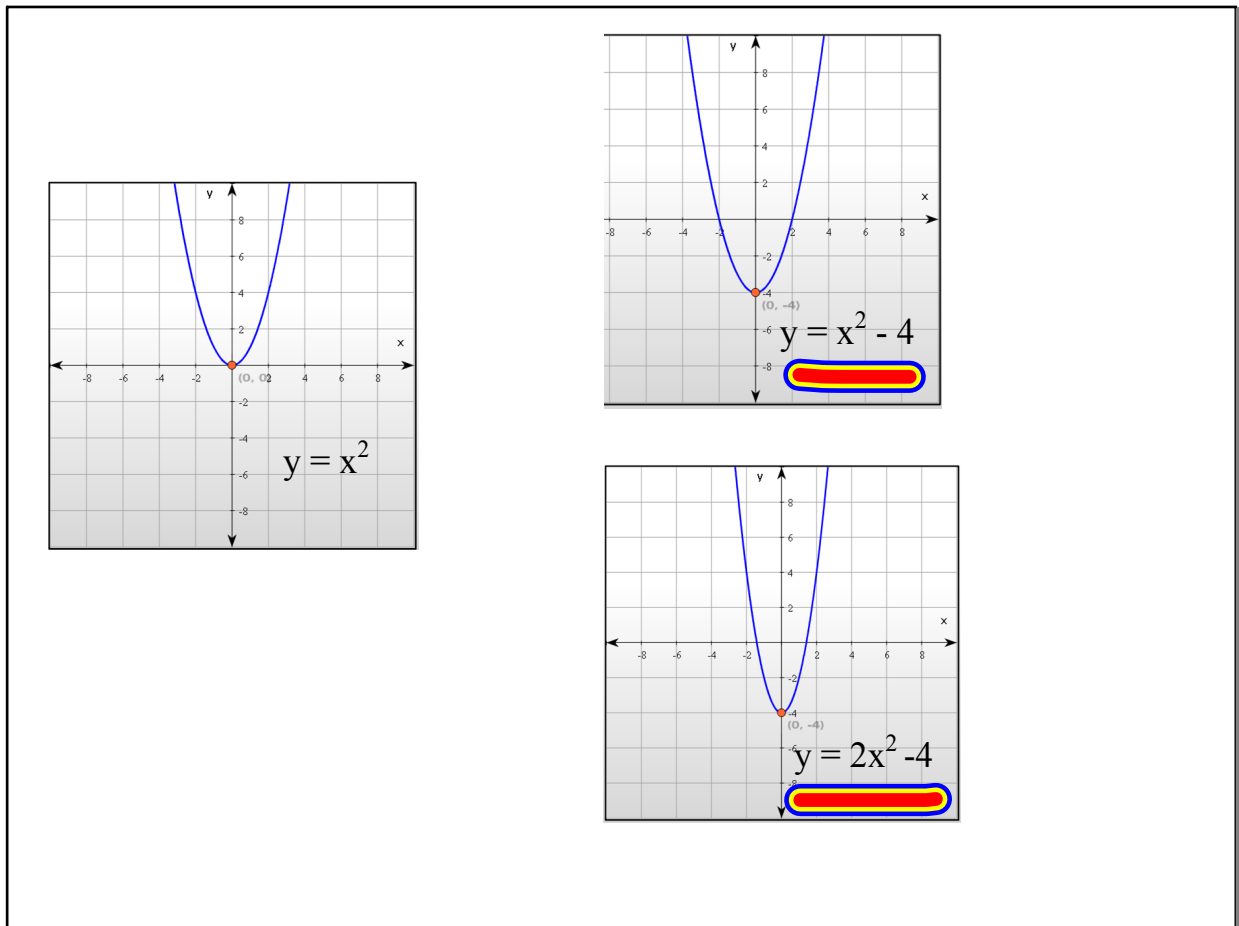
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optellen/afrekenen van een getal

$$y = x^2$$



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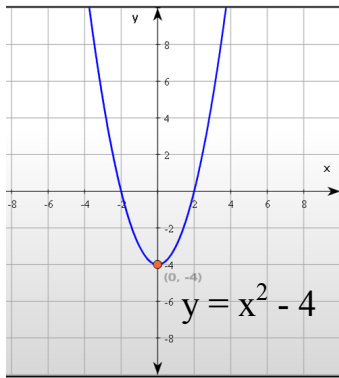
Vermenigvuldigen met een getal  
 $y = x^2 - 4$

Vermenigvuldigen met -2  
 $y = -2(x^2 - 4)$   
 $y = -2x^2 + 8$

x	-3	-2	-1	0	1	2	3
y	-10	0	6	8	6	0	-10

The figure contains two coordinate systems, each with x and y axes ranging from -8 to 8. Both show a blue parabola opening upwards with its vertex at (0, -4) and the equation  $y = x^2 - 4$ .

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Vermenigvuldigen met een getal

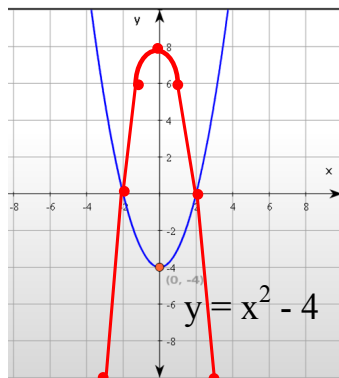
$$y = x^2 - 4$$

Vermenigvuldigen met -2

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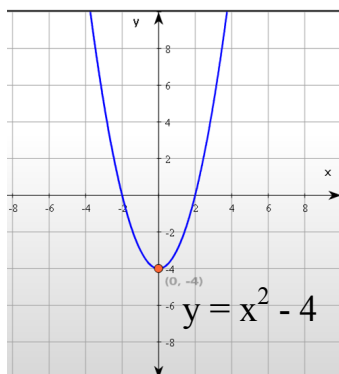
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Opzij schuiven

$$y = x^2 - 4$$

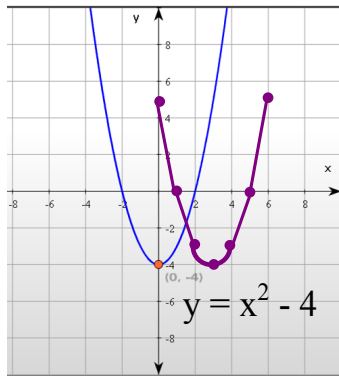
3 naar rechts (x vervangen door x-3)

$$y = (x-3)^2 - 4$$



x	0	1	2	3	4	5	6
y	5	0	-3	-4	-3	0	5

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Opzij schuiven

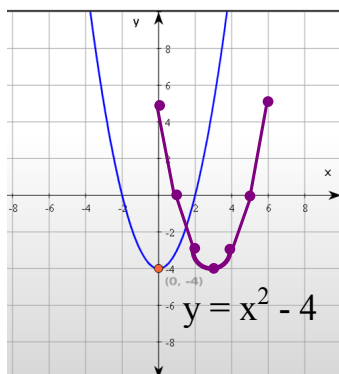
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Opzij schuiven

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3 naar rechts (x vervangen door x-3)

$$y = (x-3)^2 - 4$$

x	0	1	2	3	4	5	6
y	5	0	-3	-4	-3	0	5

 $y = (x-3)^2 - 4$  is ook te schrijven als

$$y = x^2 - 3x - 3x + 9 - 4 = x^2 - 6x + 5$$

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**Parabolic Functions**

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

**a** + 1 -

**b** + 0 -

**c** + -4 -

Roots of the Quadratic

Vertex of the Parabola

ZOOM IN ZOOM OUT

SMART Technologies

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