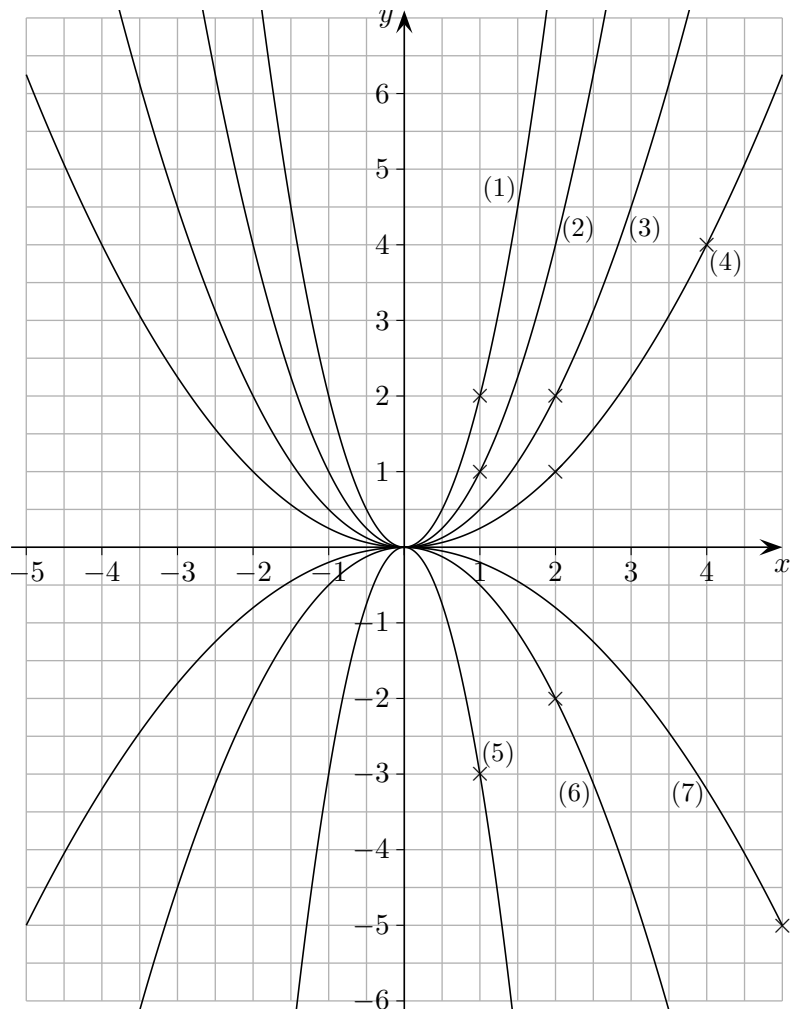


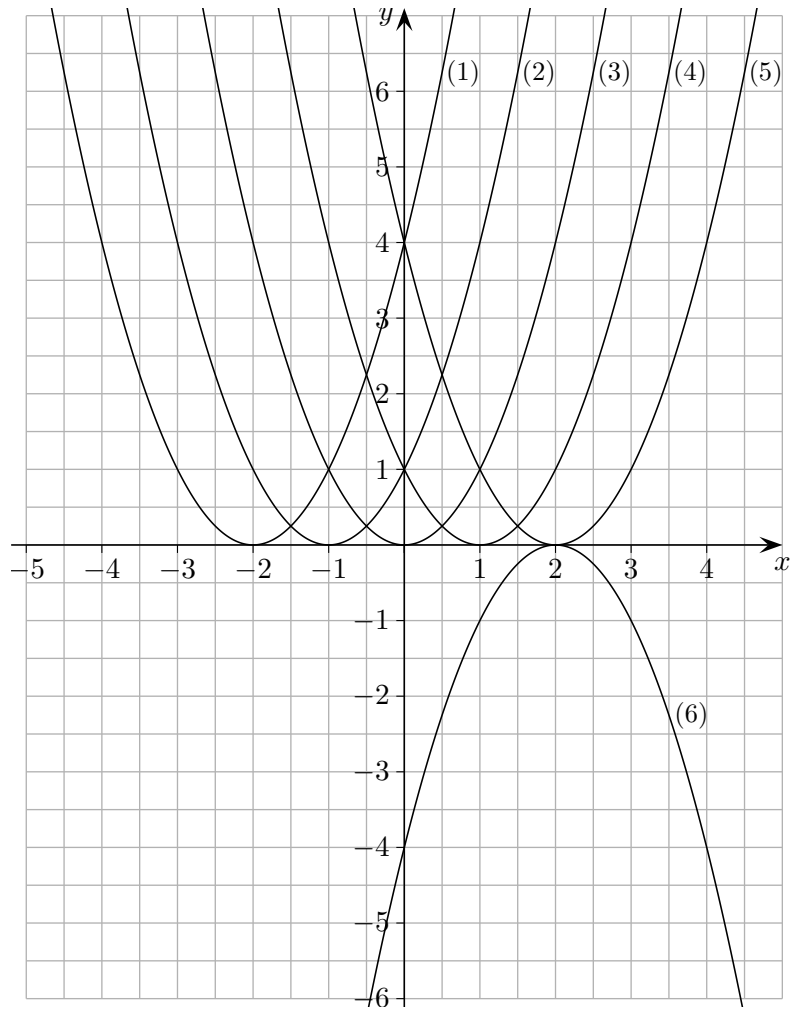
# Parabelschar

a) Ermittle zu jedem Graphen eine Parabelgleichung.



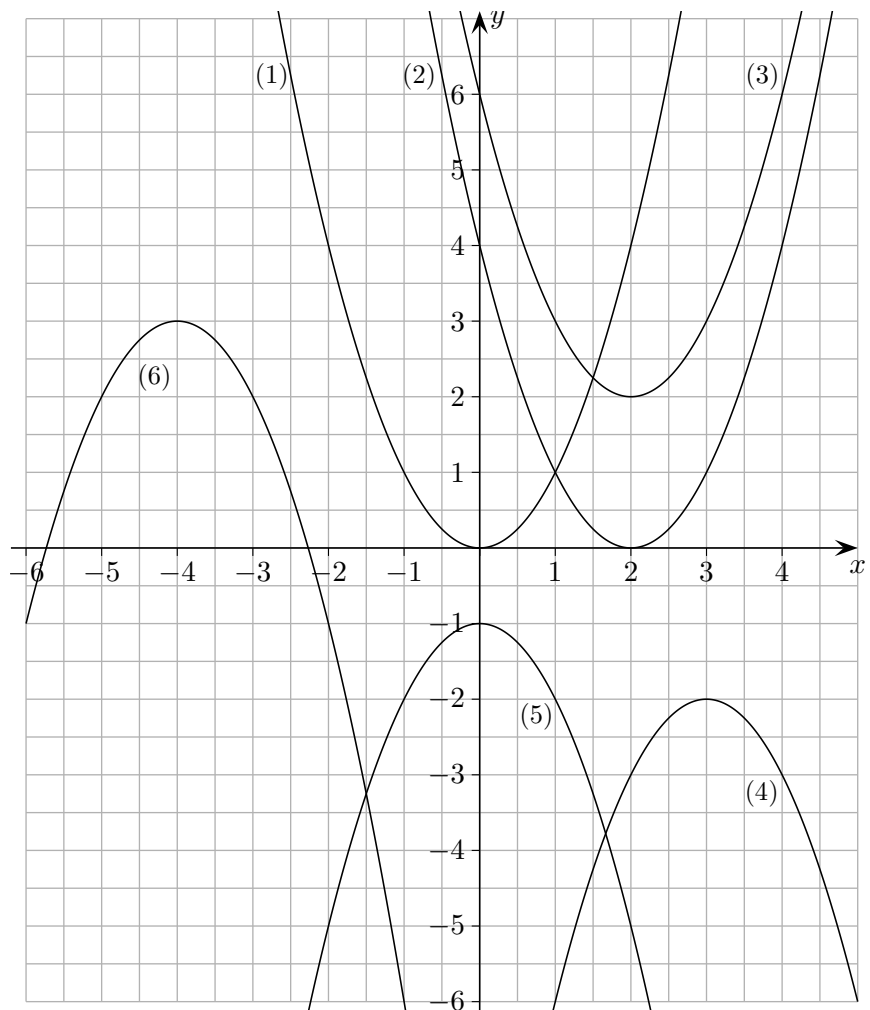
# Parabelschar

b) Ermittle zu jedem Graphen eine Parabelgleichung.



# Parabelgleichung

c) Ermittle zu jedem Graphen eine Parabelgleichung.



## Ergebnisse

- a) (1)  $y = 2x^2$   
(2)  $y = x^2$   
(3)  $y = \frac{1}{2}x^2$   
(4)  $y = \frac{1}{4}x^2$   
(5)  $y = -3x^2$   
(6)  $y = -\frac{1}{2}x^2$   
(7)  $y = -\frac{1}{5}x^2$

- b) (1)  $y = (x + 2)^2 = x^2 + 4x + 4$   
(2)  $y = (x + 1)^2 = x^2 + 2x + 1$   
(3)  $y = x^2$   
(4)  $y = (x - 1)^2 = x^2 - 2x + 1$   
(5)  $y = (x - 2)^2 = x^2 - 4x + 4$   
(6)  $y = -(x - 2)^2 = -x^2 + 4x - 4$

- c) (1)  $y = x^2$   
(2)  $y = (x - 2)^2 = x^2 - 4x + 4$   
(3)  $y = (x - 2)^2 + 2 = x^2 - 4x + 6$   
(4)  $y = -(x - 3)^2 - 2 = -x^2 + 6x - 11$   
(5)  $y = -x^2 - 1$   
(6)  $y = -(x + 4)^2 + 3 = -x^2 - 8x - 13$