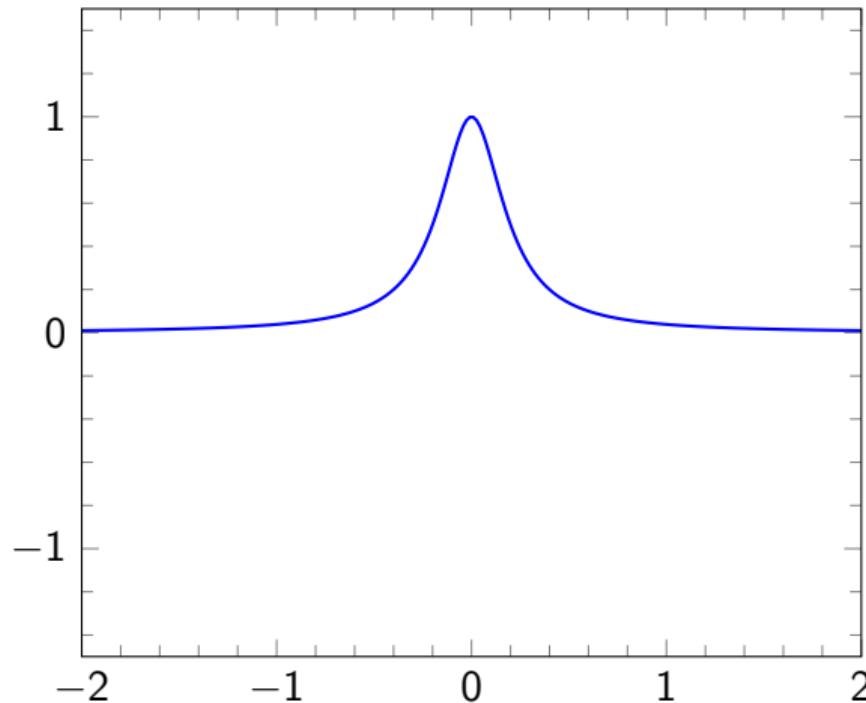
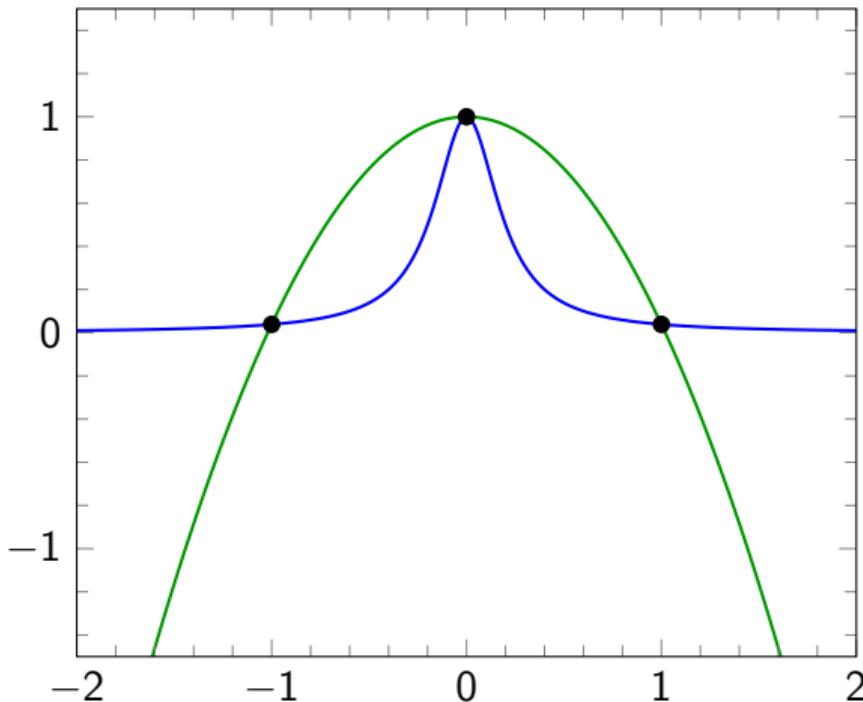


Runges fenomen



$$f(x) = \frac{1}{1 + 25x^2}$$

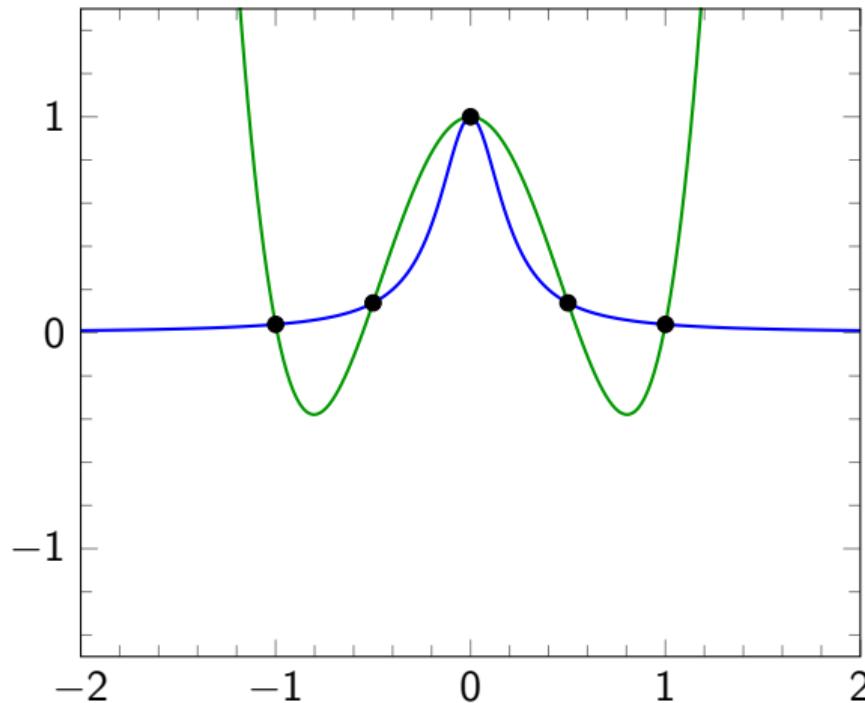
Runge's fenomen



$$f(x) = \frac{1}{1 + 25x^2}$$

Interpolationspunkter $\in [-1, 1]$
3 ekvidistanta \Rightarrow grad 2

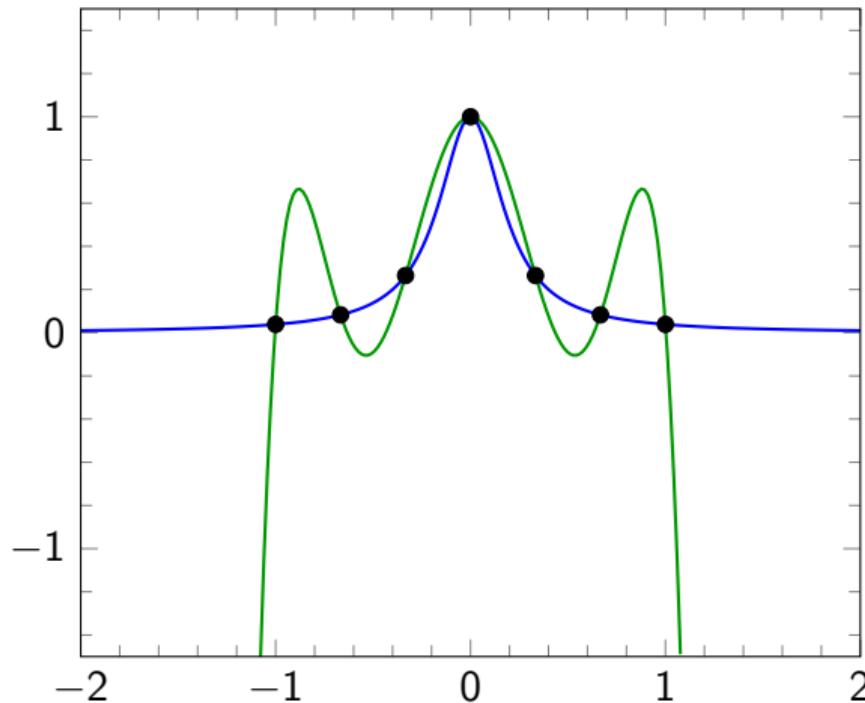
Runge's fenomen



$$f(x) = \frac{1}{1 + 25x^2}$$

Interpolationspunkter $\in [-1, 1]$
5 ekvidistanta \Rightarrow grad 4

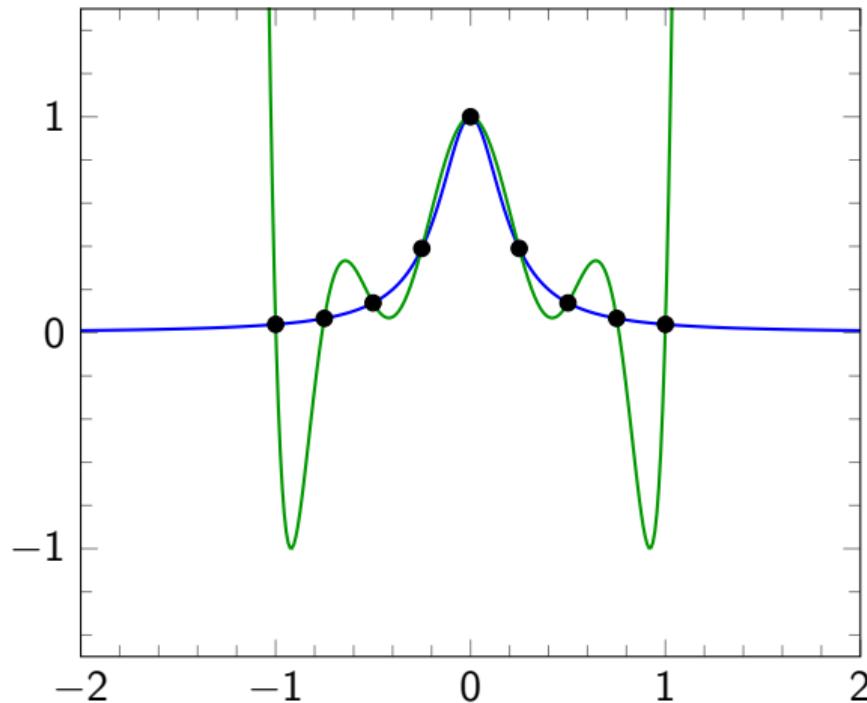
Runges fenomen



$$f(x) = \frac{1}{1 + 25x^2}$$

Interpolationspunkter $\in [-1, 1]$
7 ekvidistanta \Rightarrow grad 6

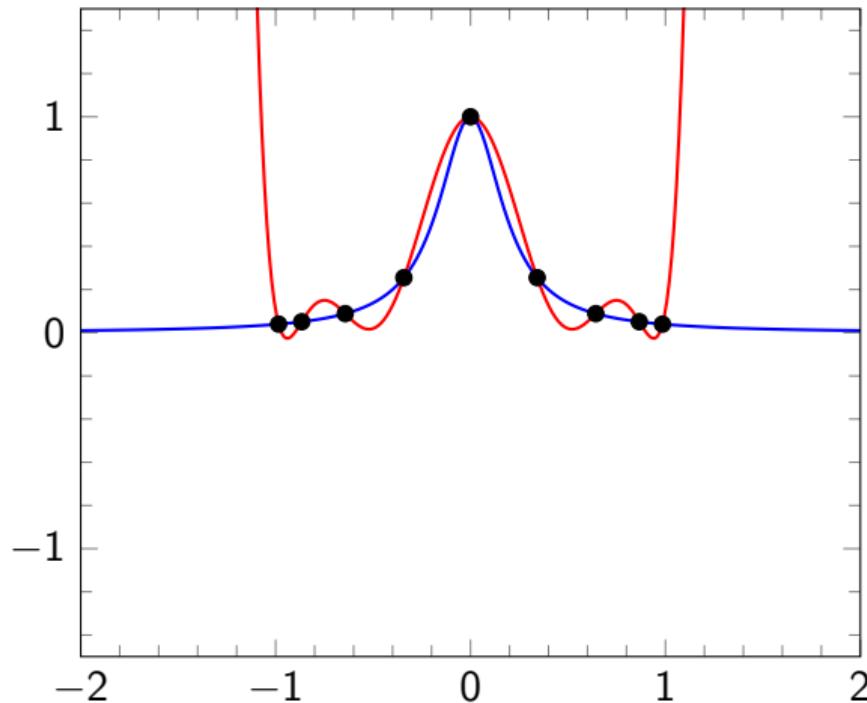
Runge's fenomen



$$f(x) = \frac{1}{1 + 25x^2}$$

Interpolationspunkter $\in [-1, 1]$
9 ekvidistanta \Rightarrow grad 8

Runges fenomen



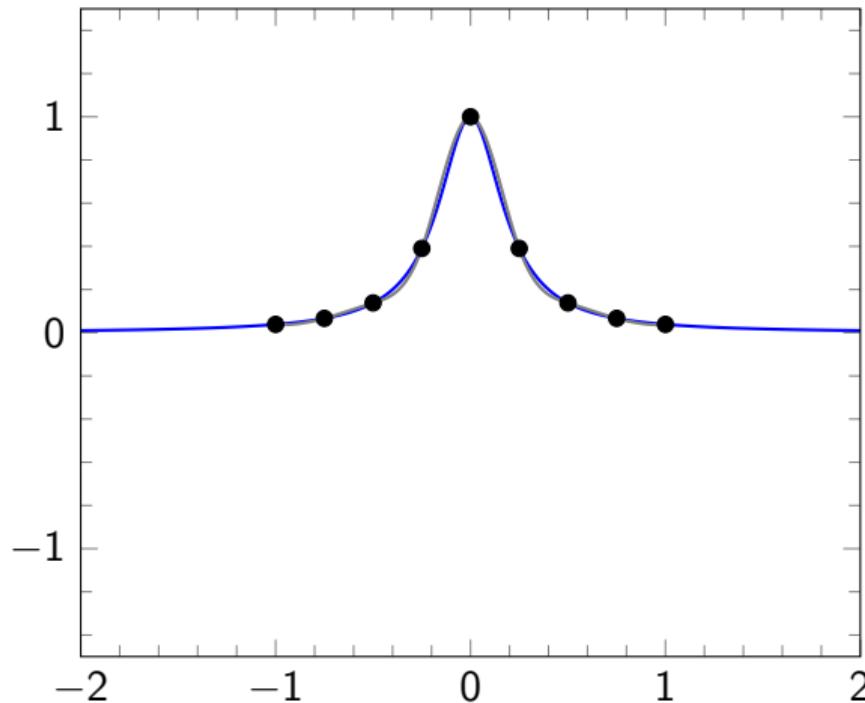
$$f(x) = \frac{1}{1 + 25x^2}$$

Interpolationspunkter $\in [-1, 1]$

9 punkter:

$$\cos\left(\frac{(2k-1)\pi}{18}\right), \quad k = 1, \dots, 9$$

Runge's fenomen



$$f(x) = \frac{1}{1 + 25x^2}$$

Interpolationspunkter $\in [-1, 1]$

9 ekvidistanta

Kubisk spline