

**EE16B, Spring 2018
UC Berkeley EECS**

Maharbiz and Roychowdhury

Lecture 11B

Signals

Interpolation (Figures)

Interpolating Sound



Orig (analog)



ZOH

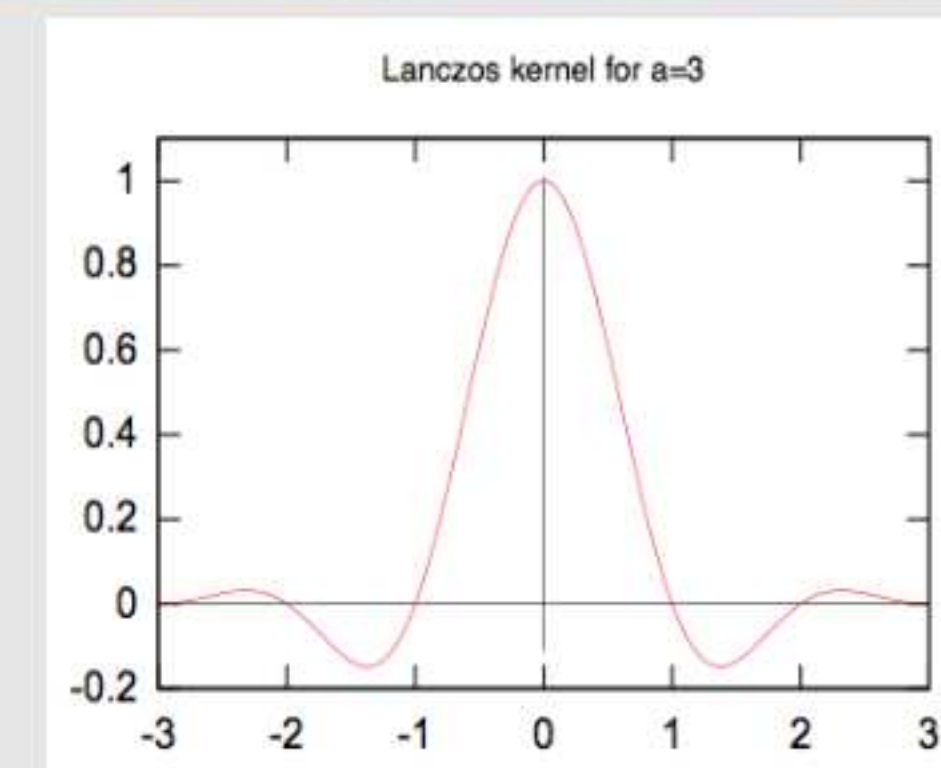


PWL

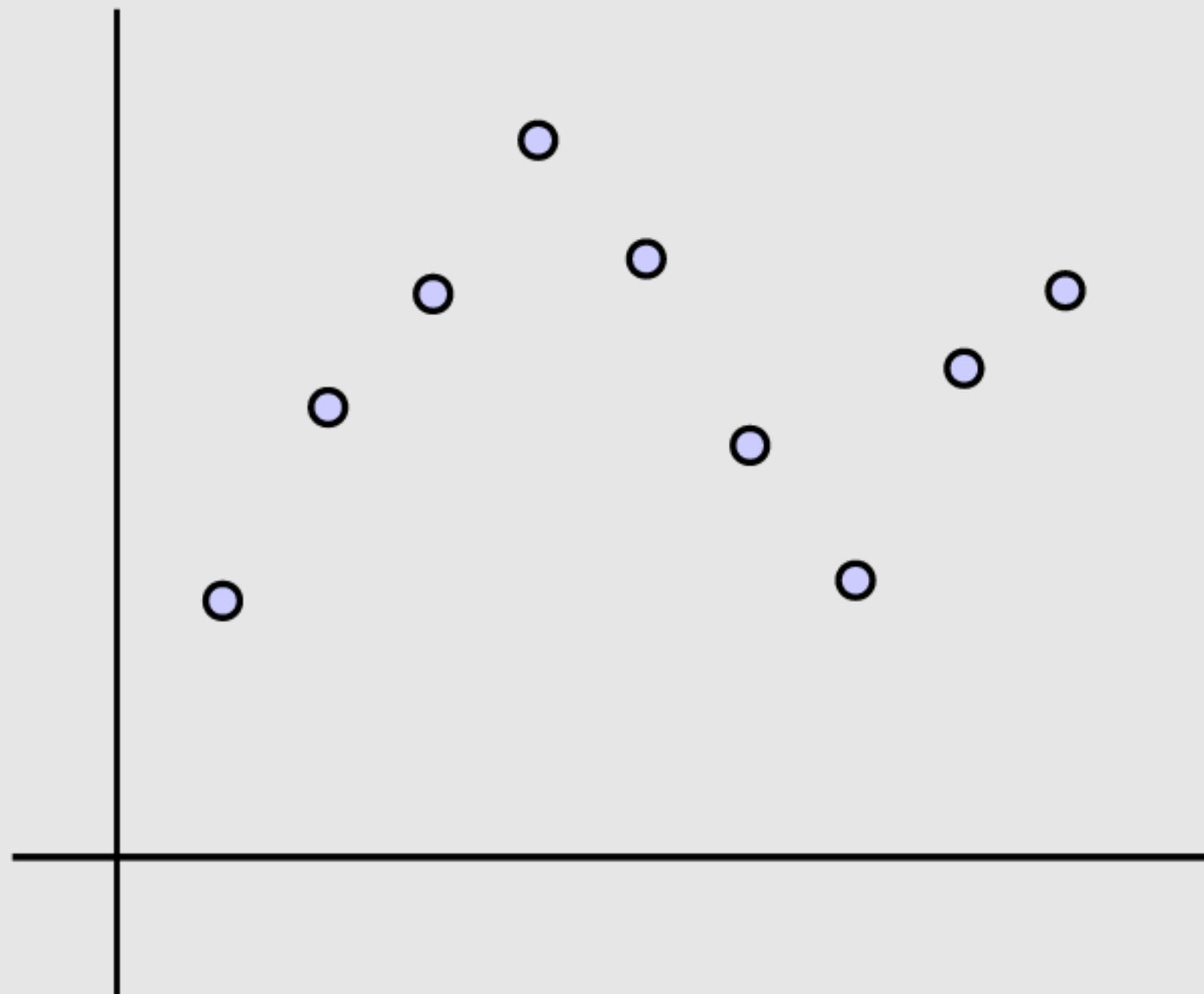


sinc()

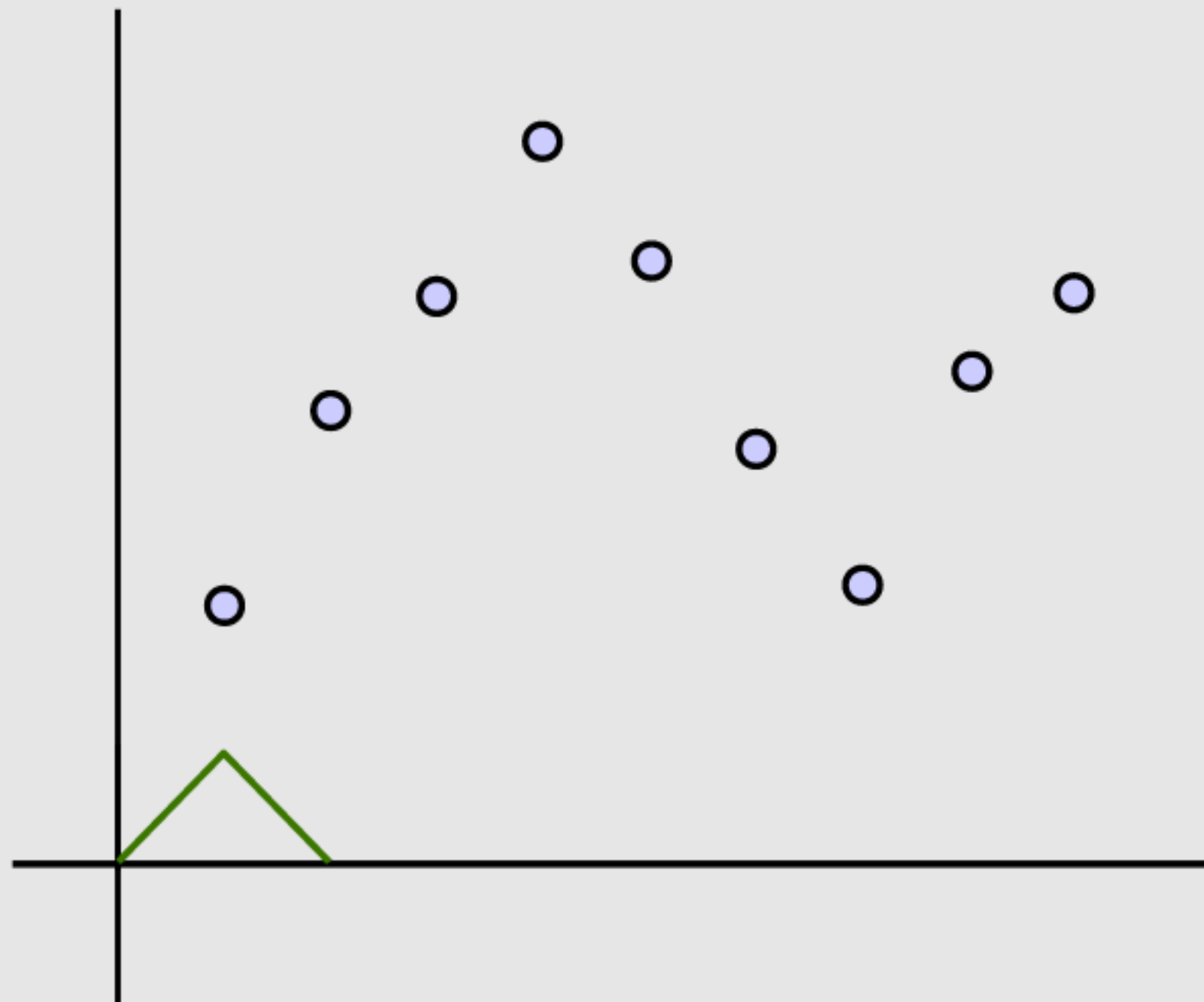
sampling: 4410 Hz



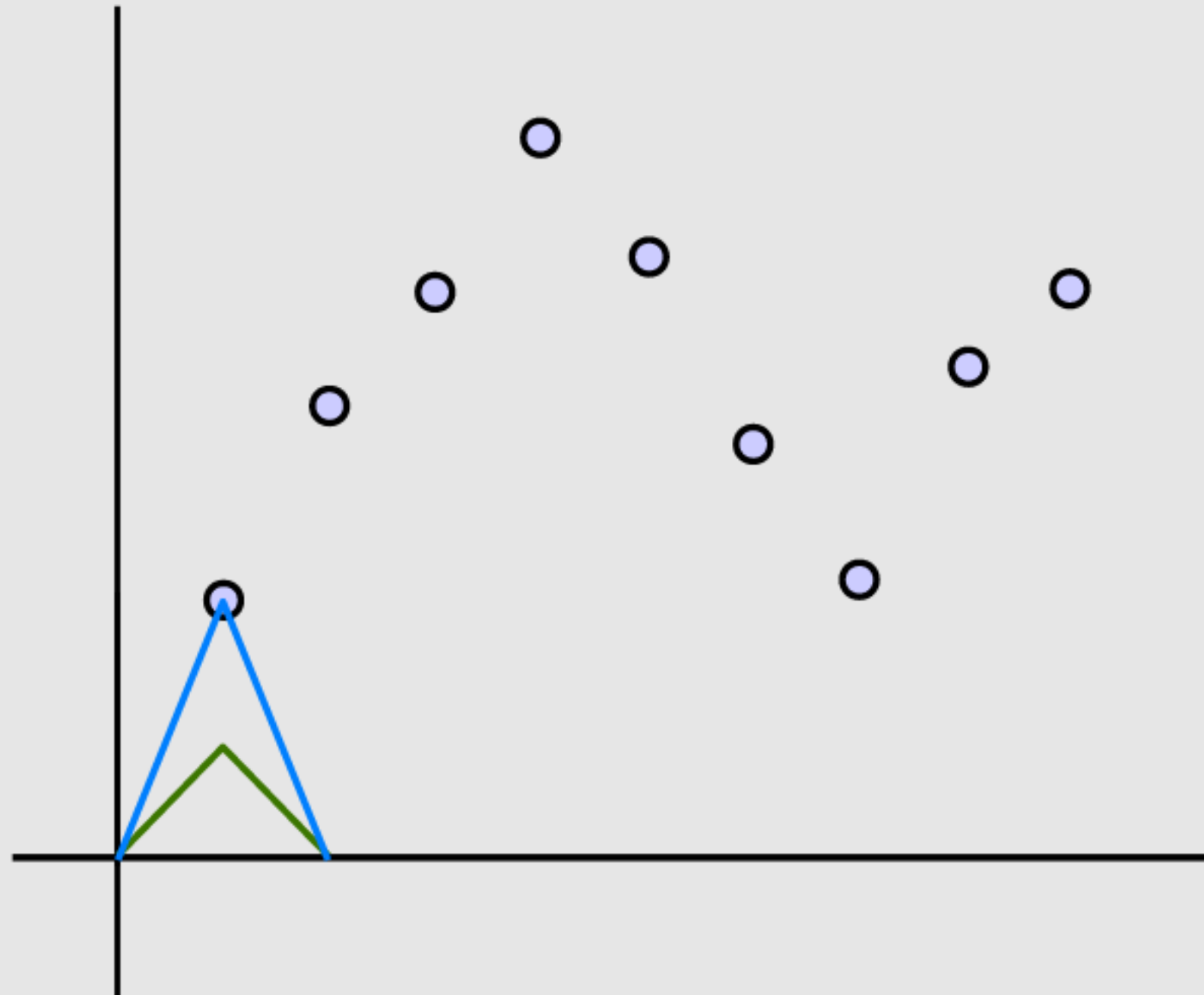
Piecewise-Linear Interpolation



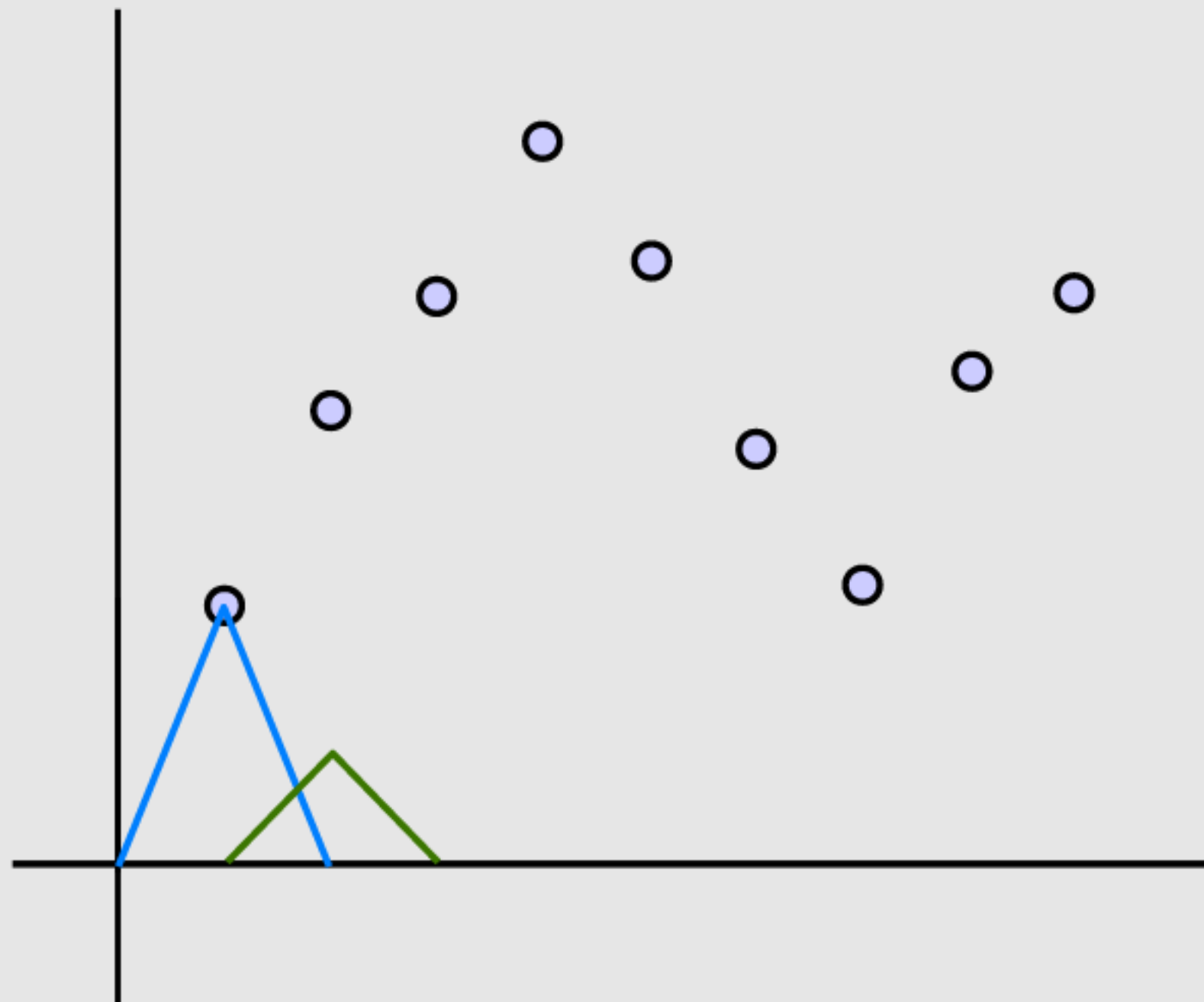
Piecewise-Linear Interpolation



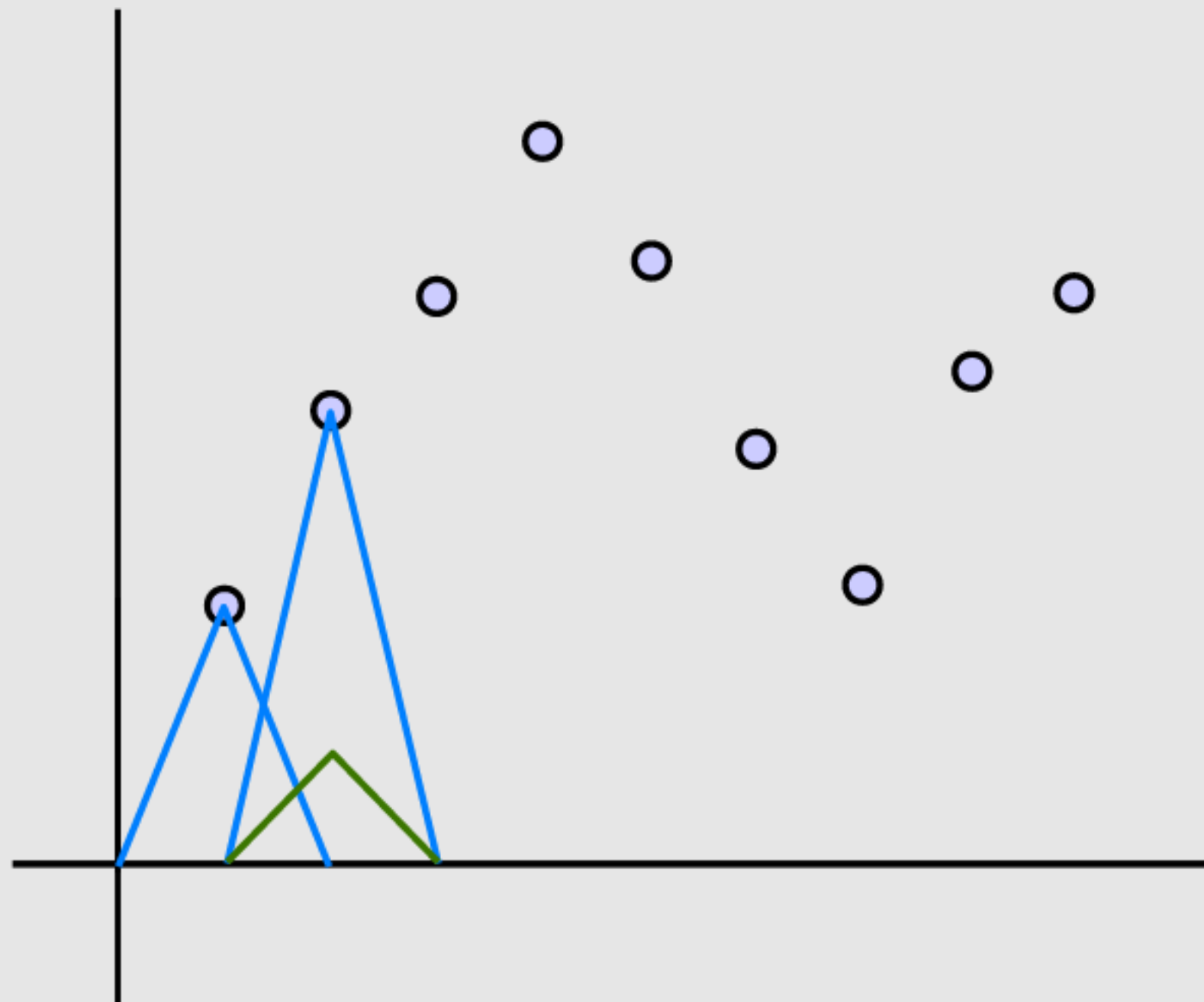
Piecewise-Linear Interpolation



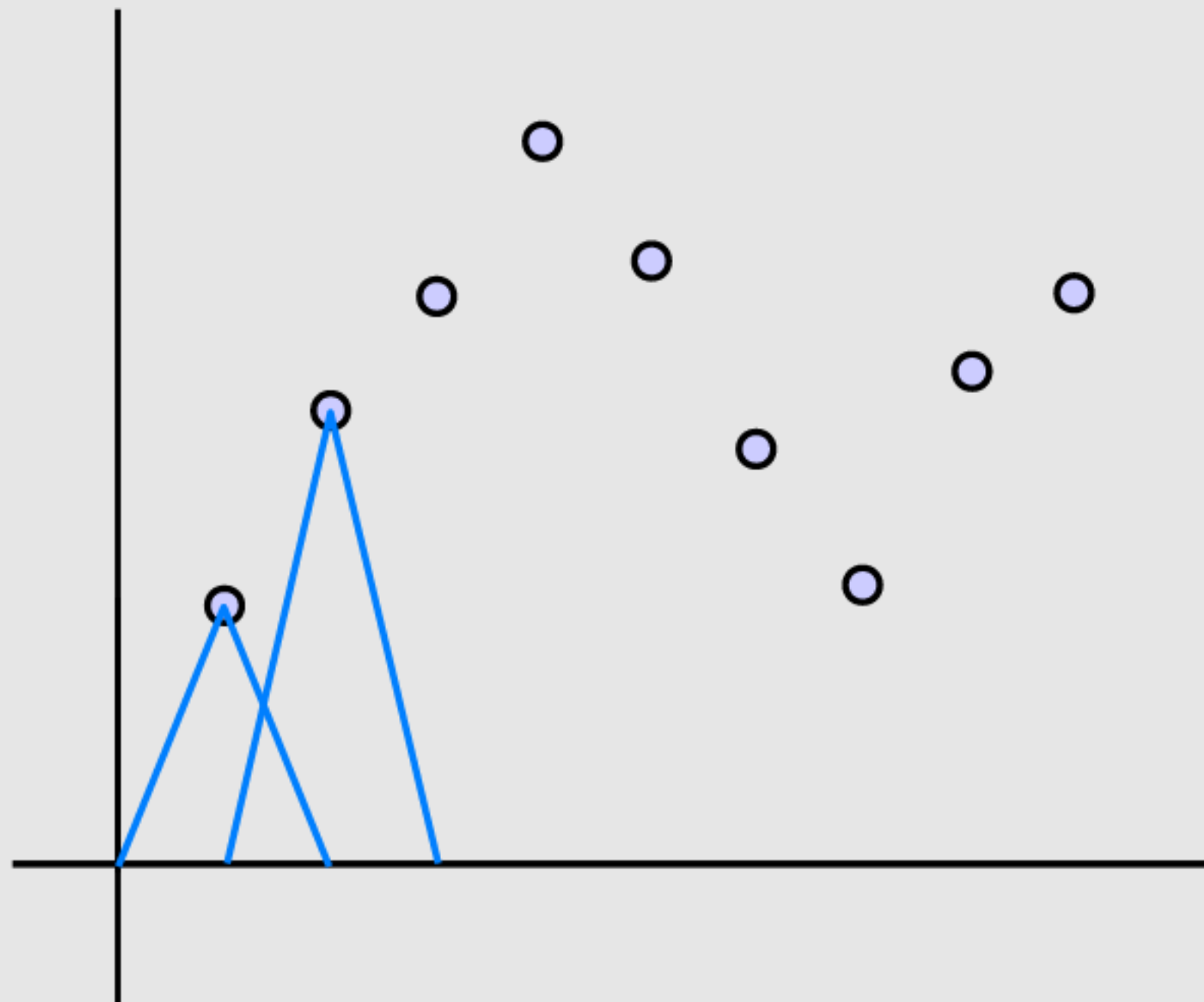
Piecewise-Linear Interpolation



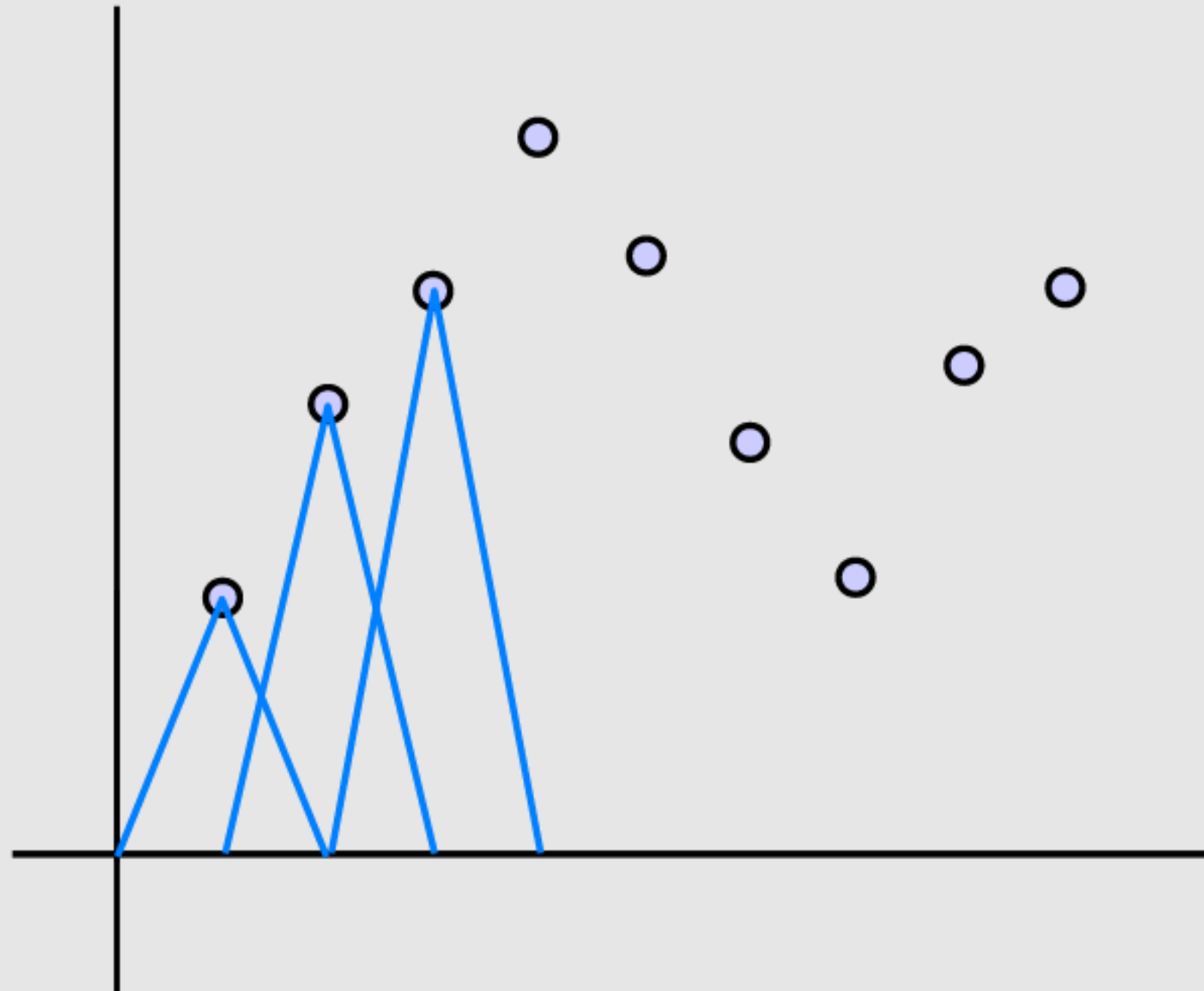
Piecewise-Linear Interpolation



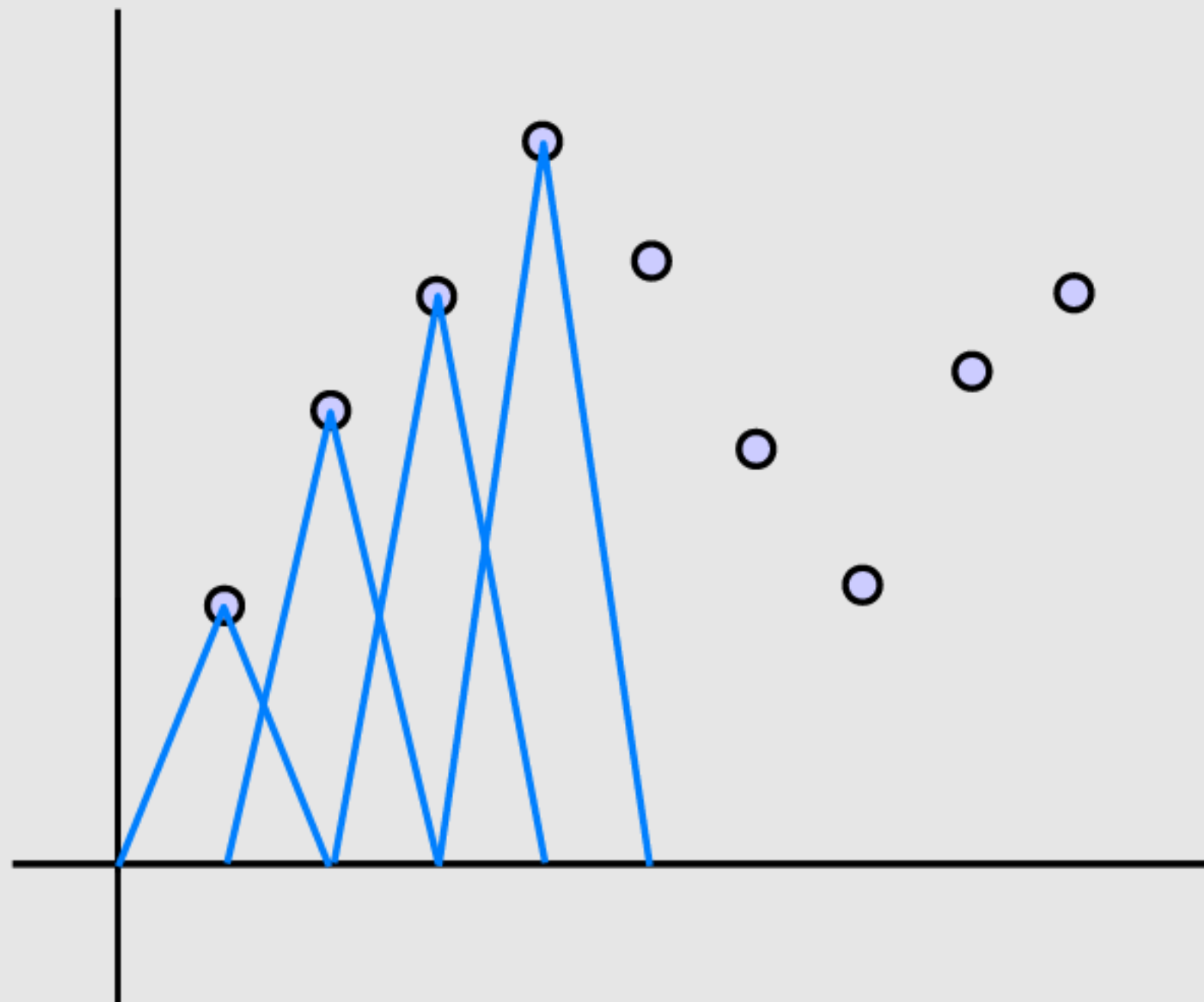
Piecewise-Linear Interpolation



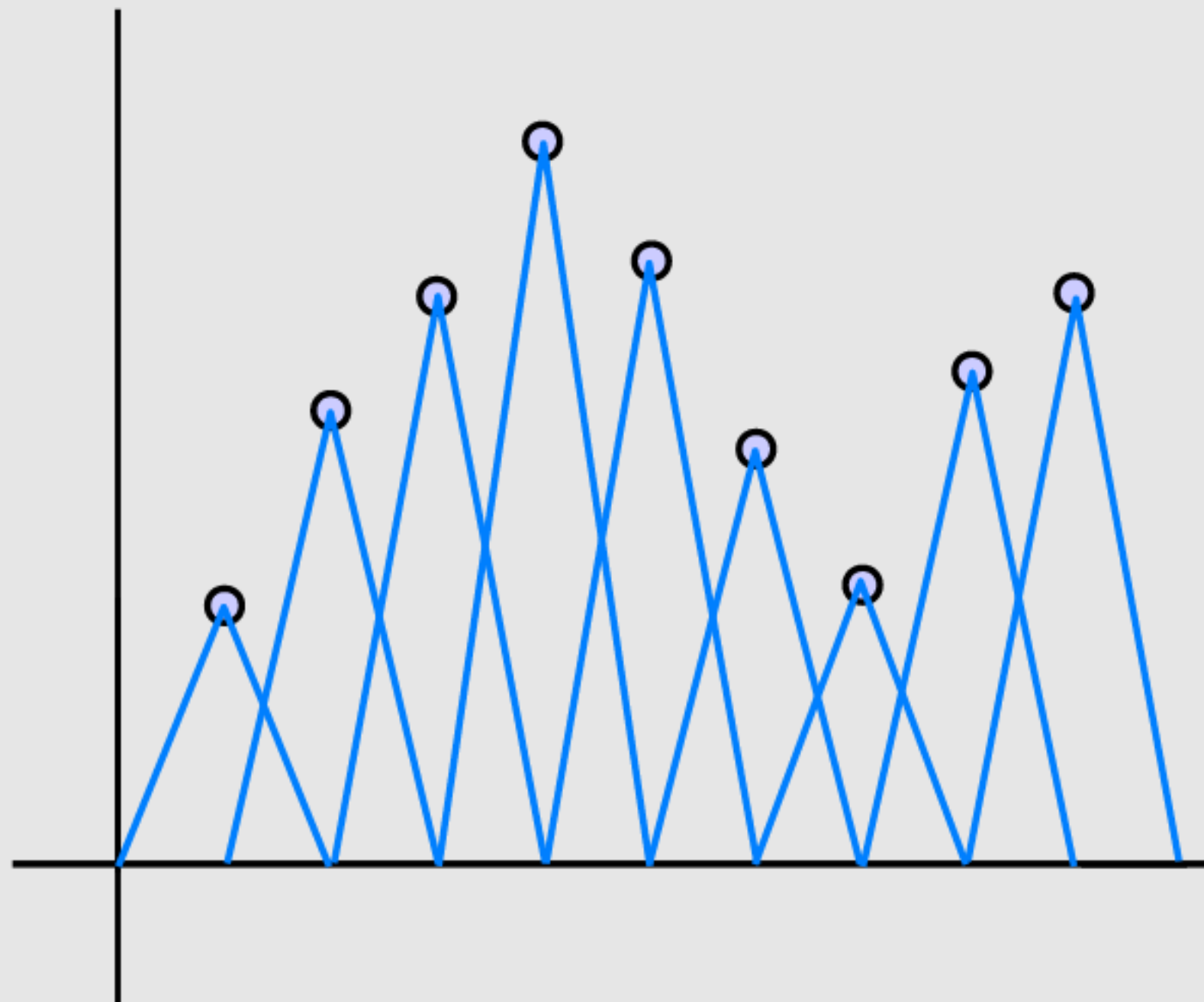
Piecewise-Linear Interpolation



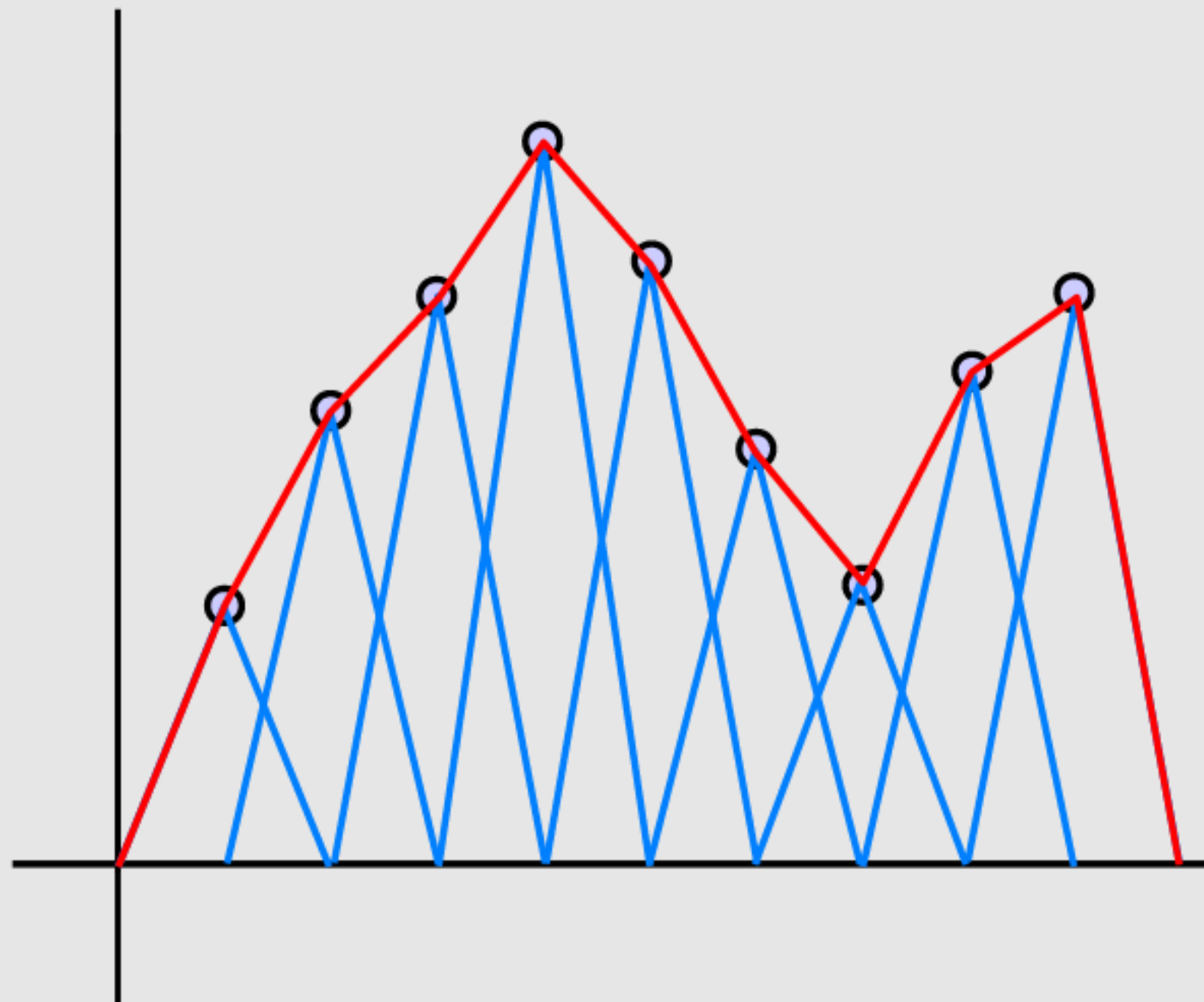
Piecewise-Linear Interpolation



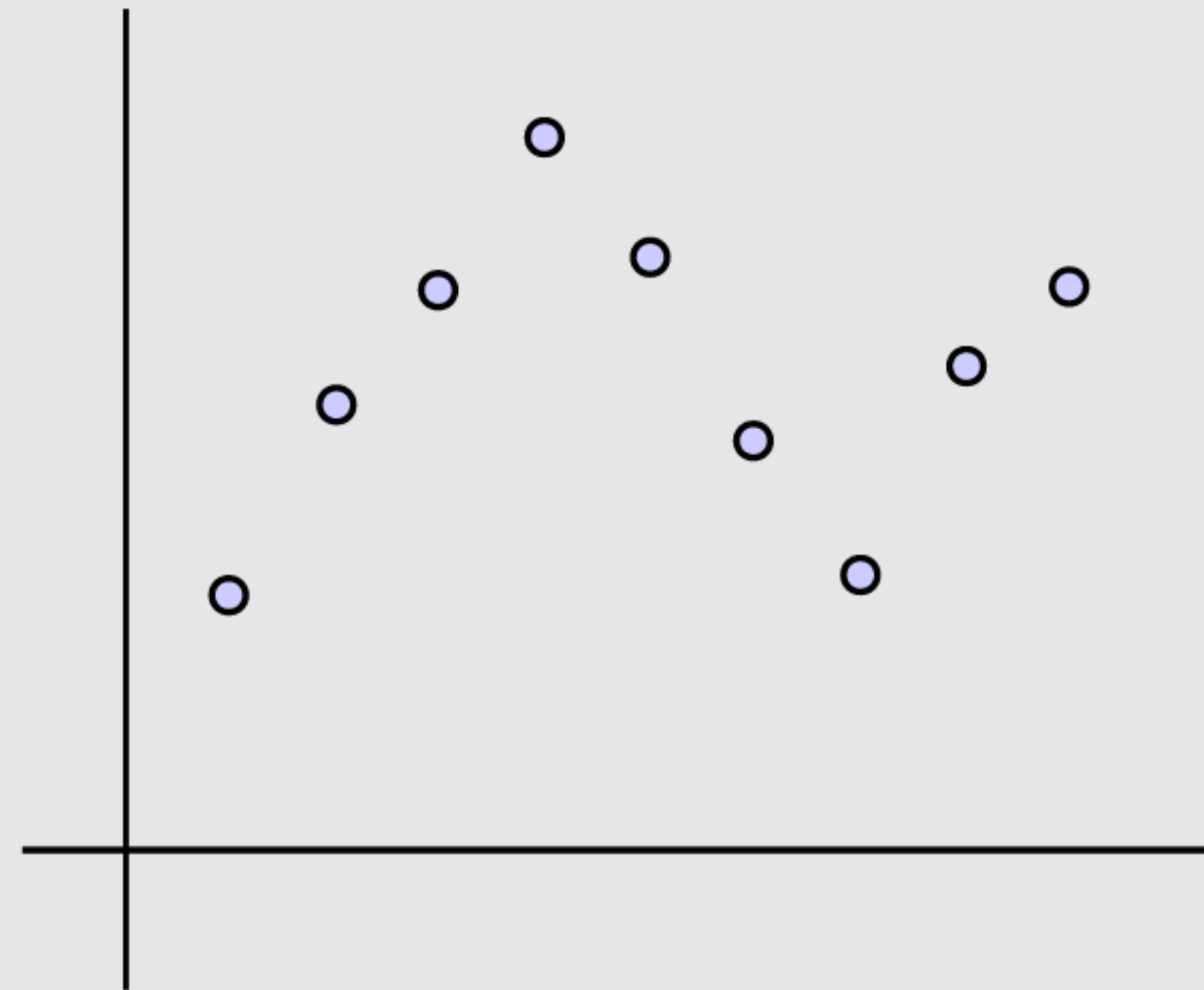
Piecewise-Linear Interpolation



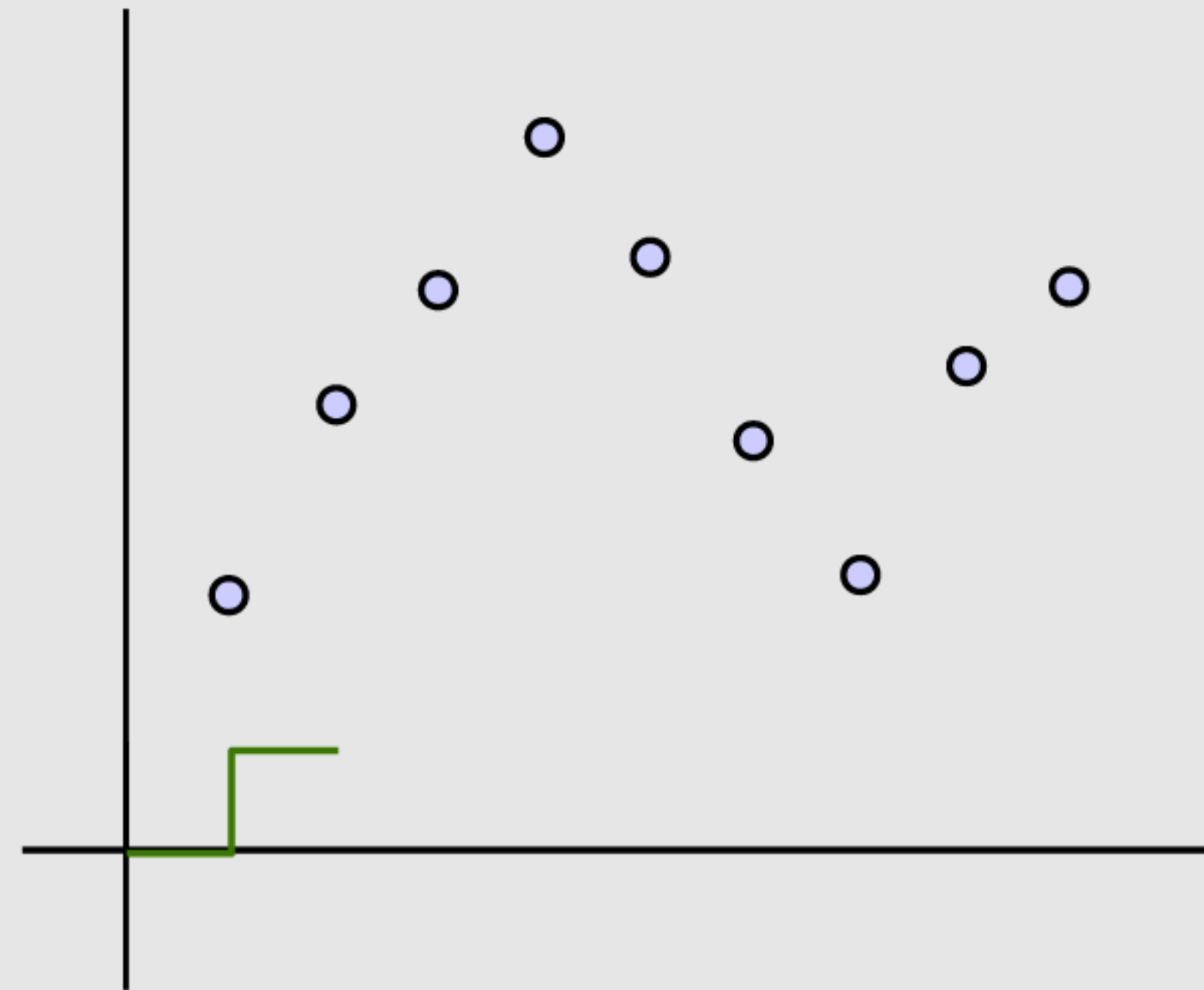
Piecewise-Linear Interpolation



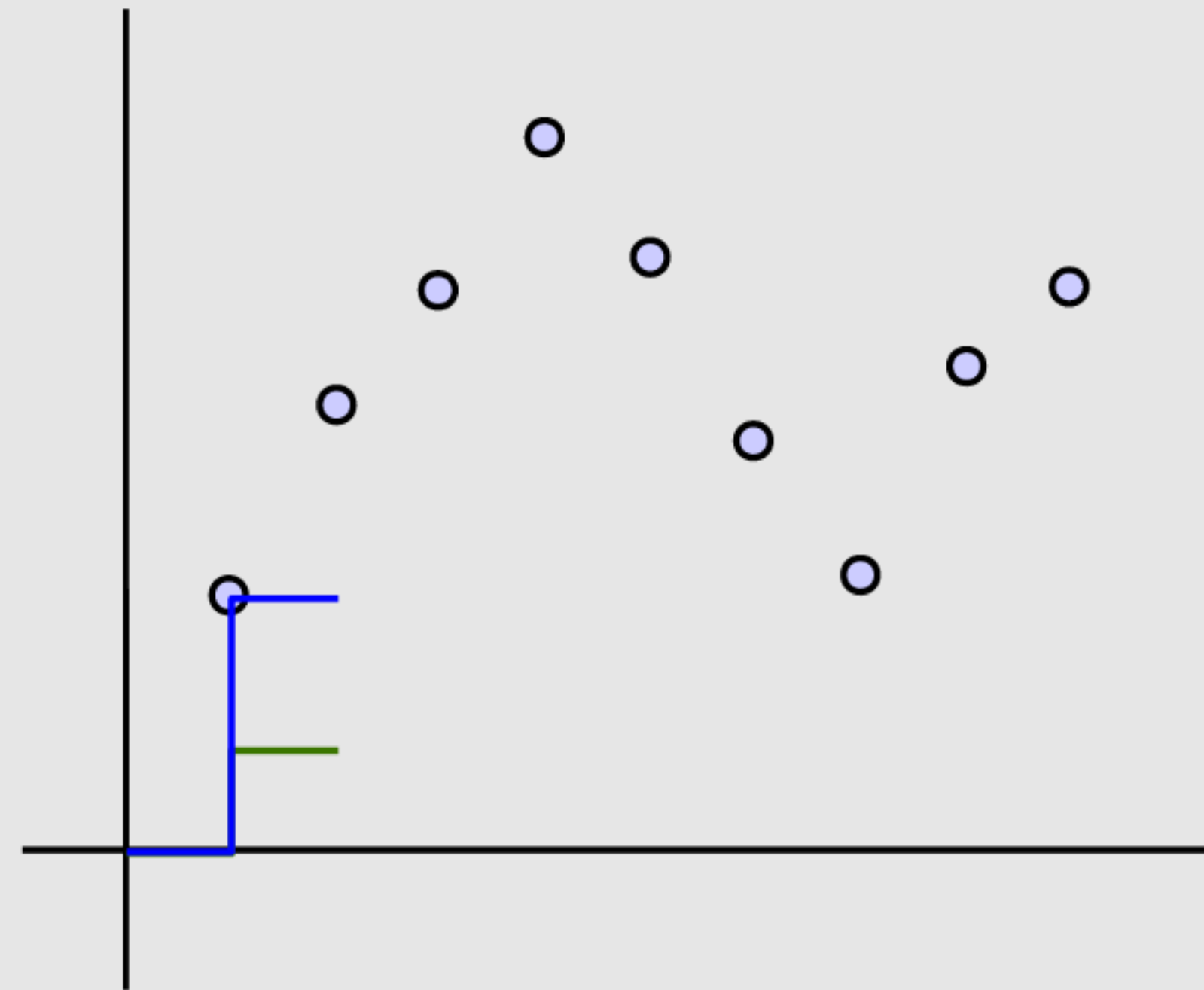
Zeroth-order Hold Interpolation



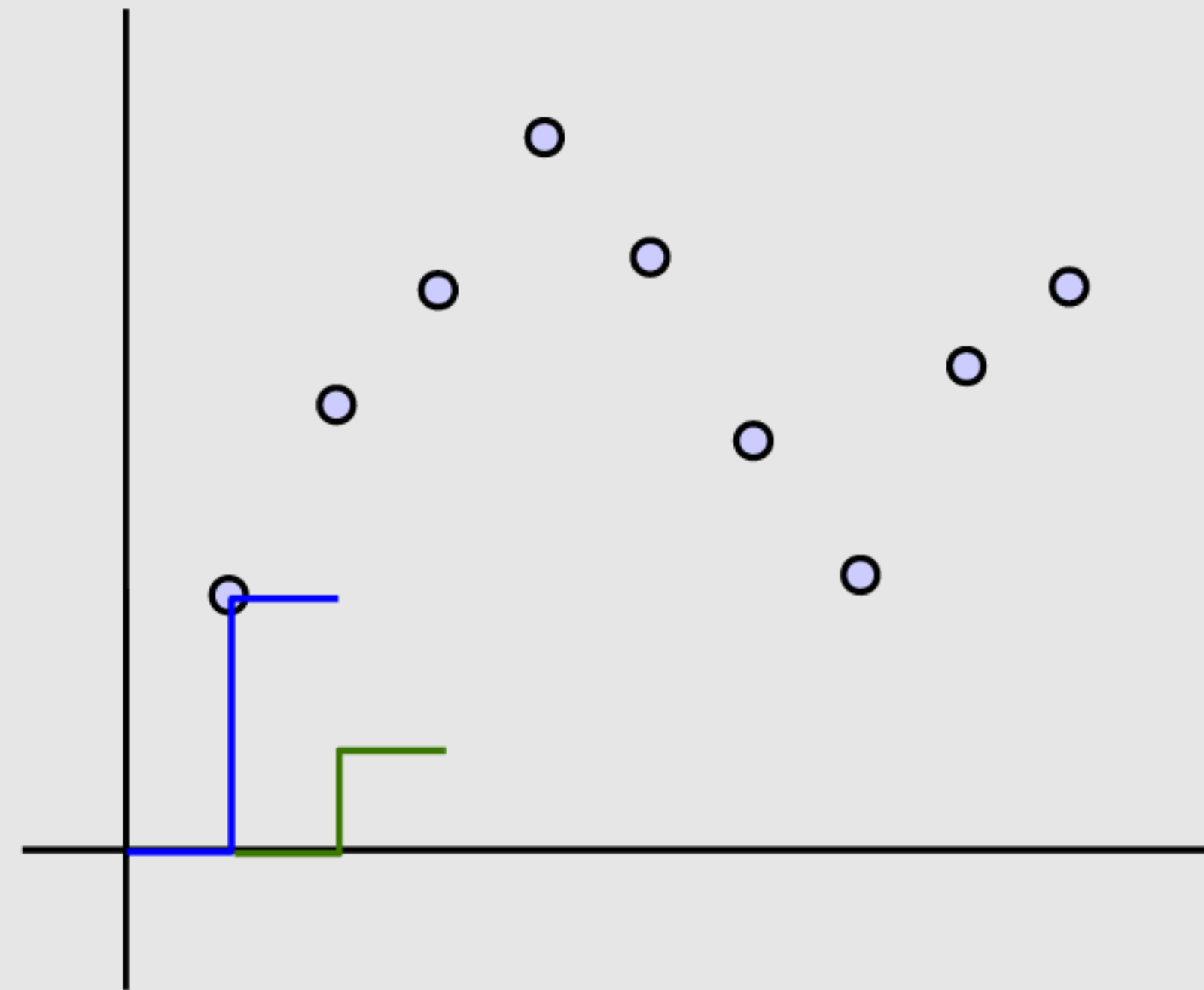
Zeroth-order Hold Interpolation



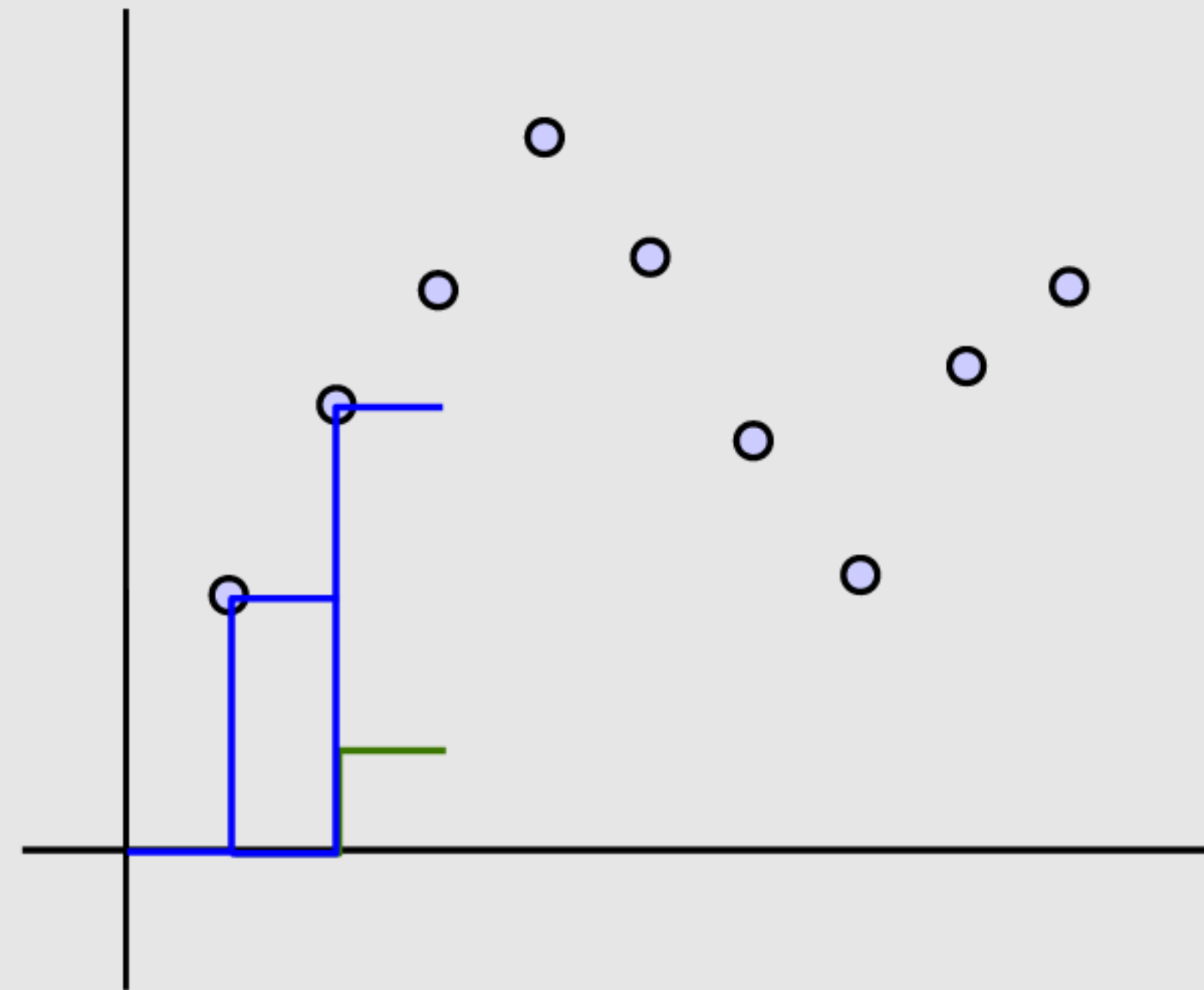
Zeroth-order Hold Interpolation



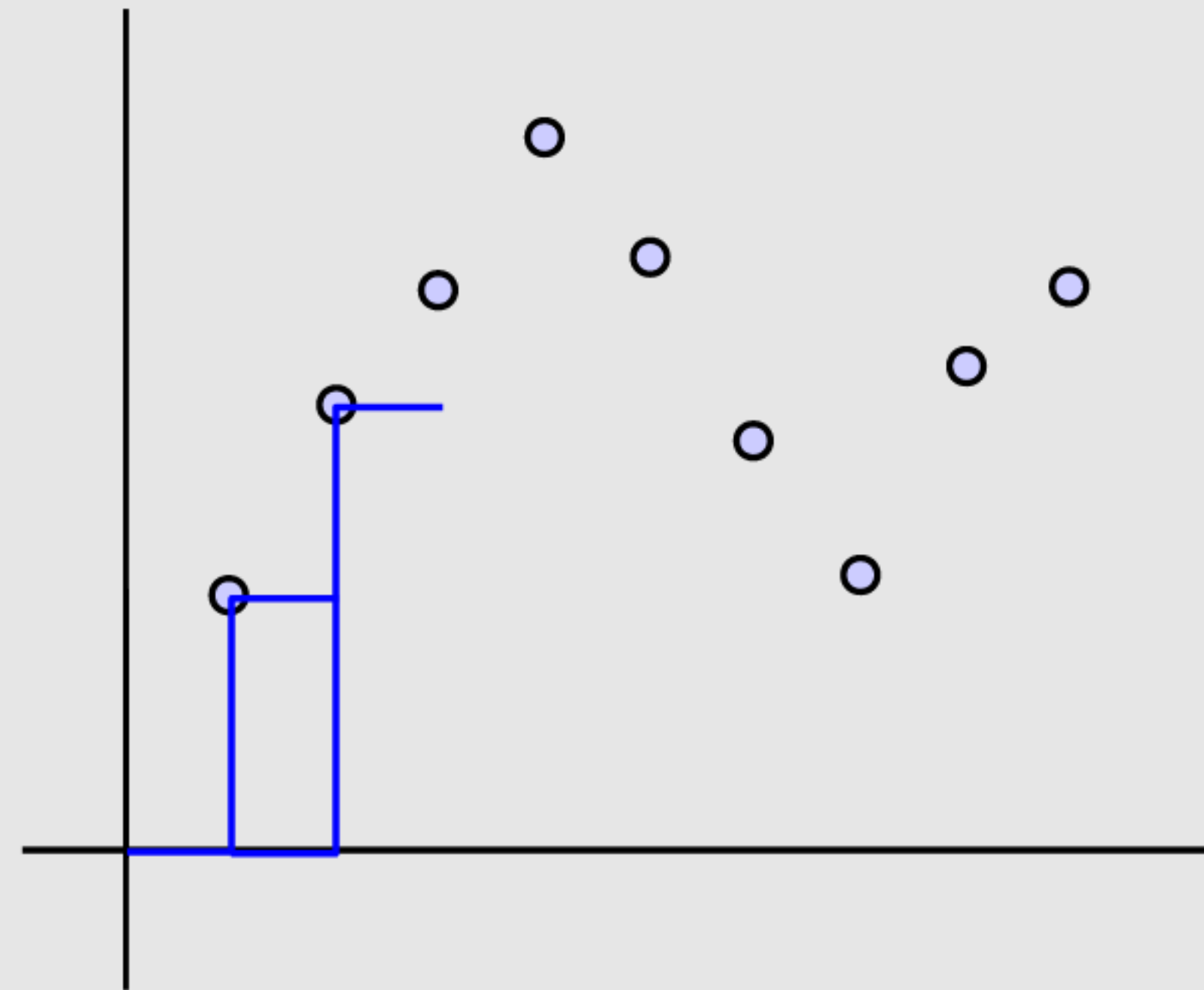
Zeroth-order Hold Interpolation



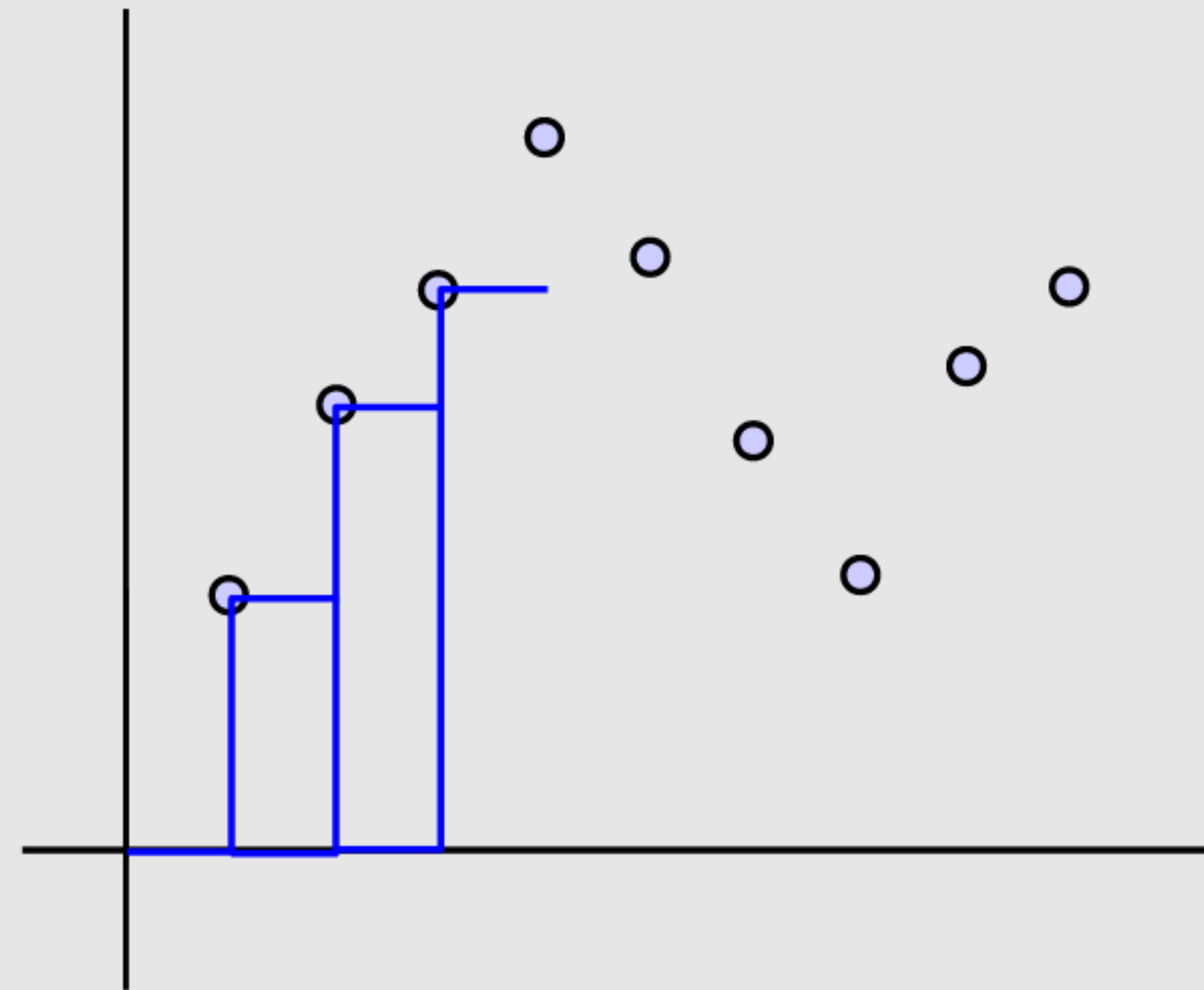
Zeroth-order Hold Interpolation



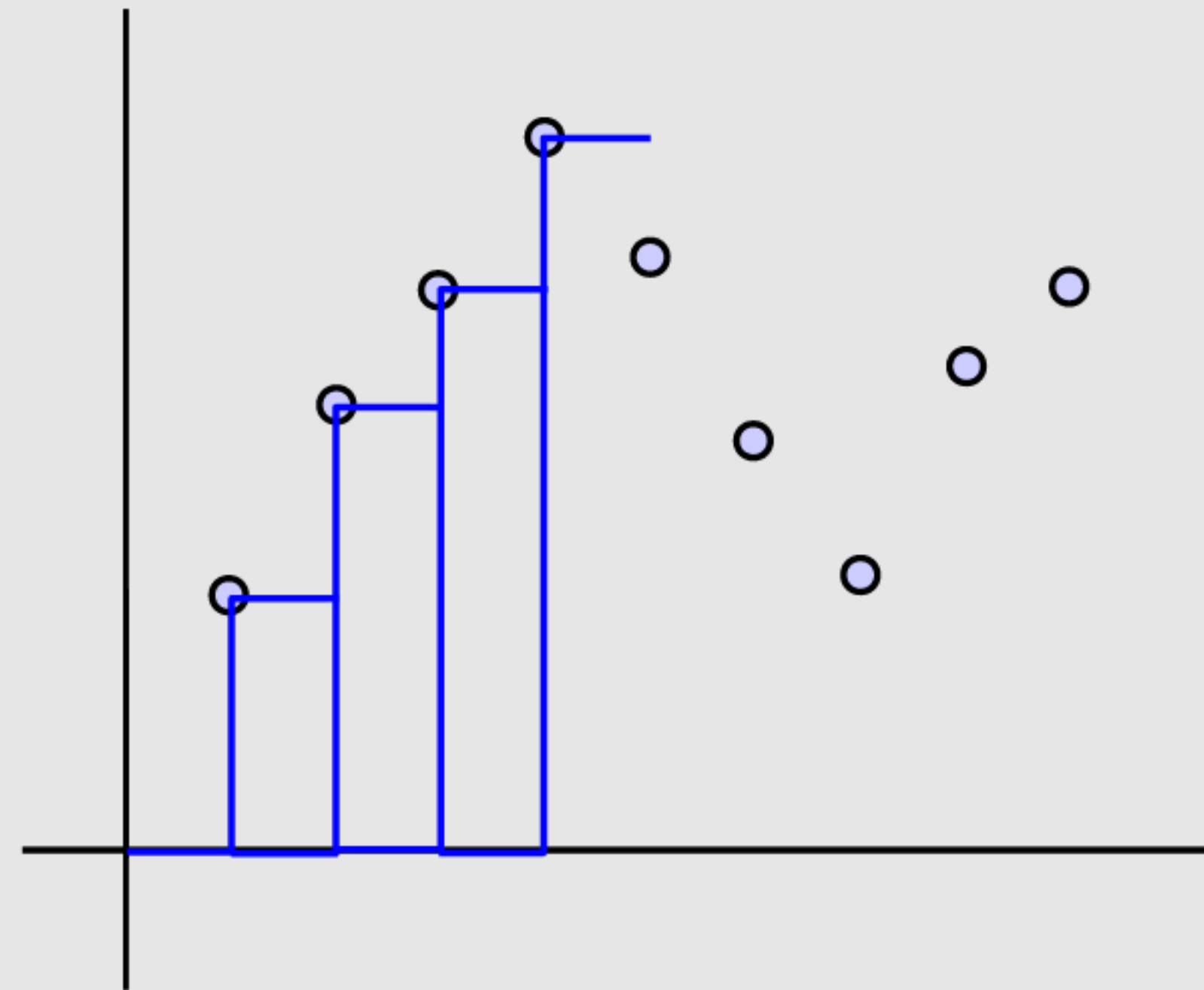
Zeroth-order Hold Interpolation



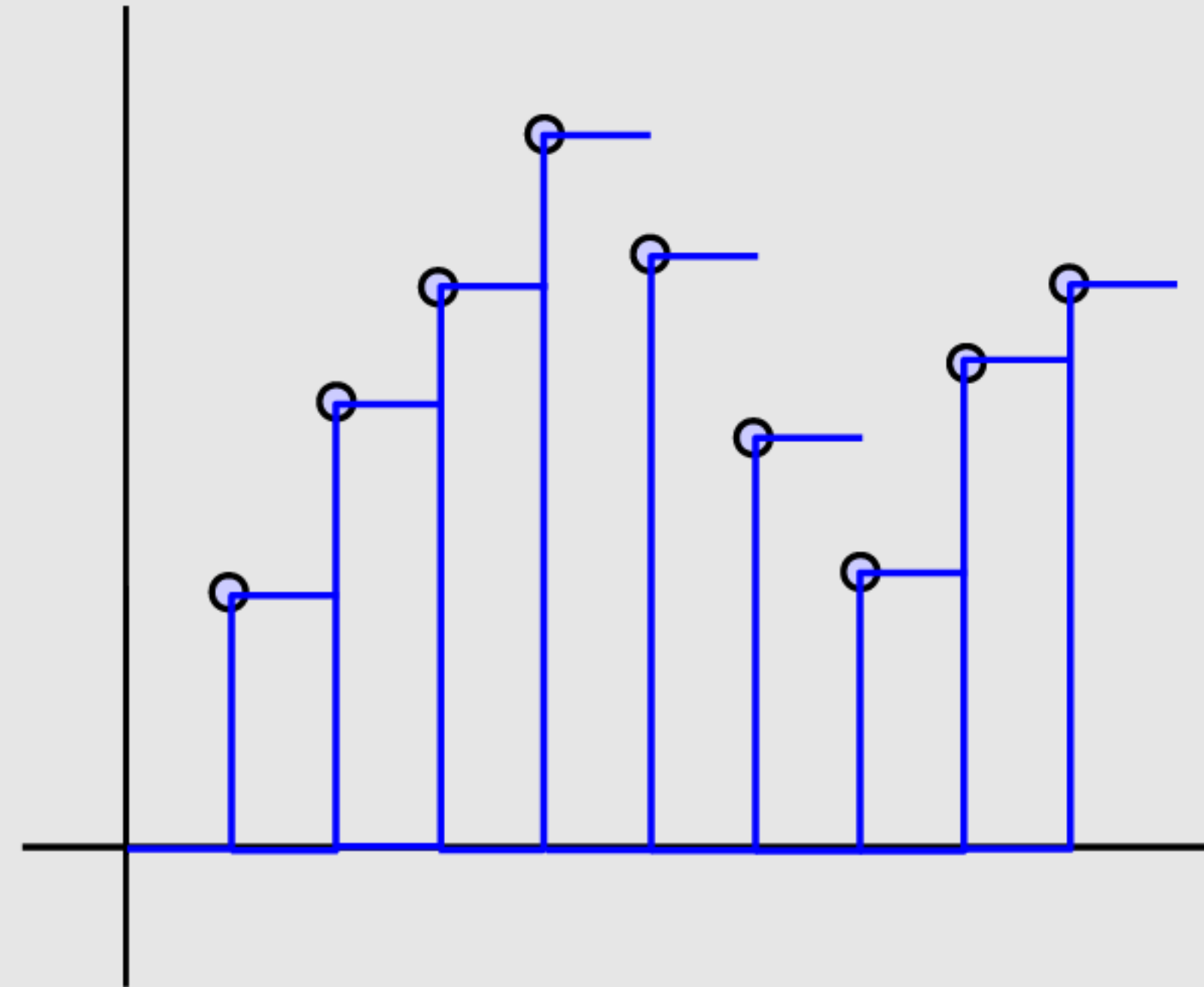
Zeroth-order Hold Interpolation



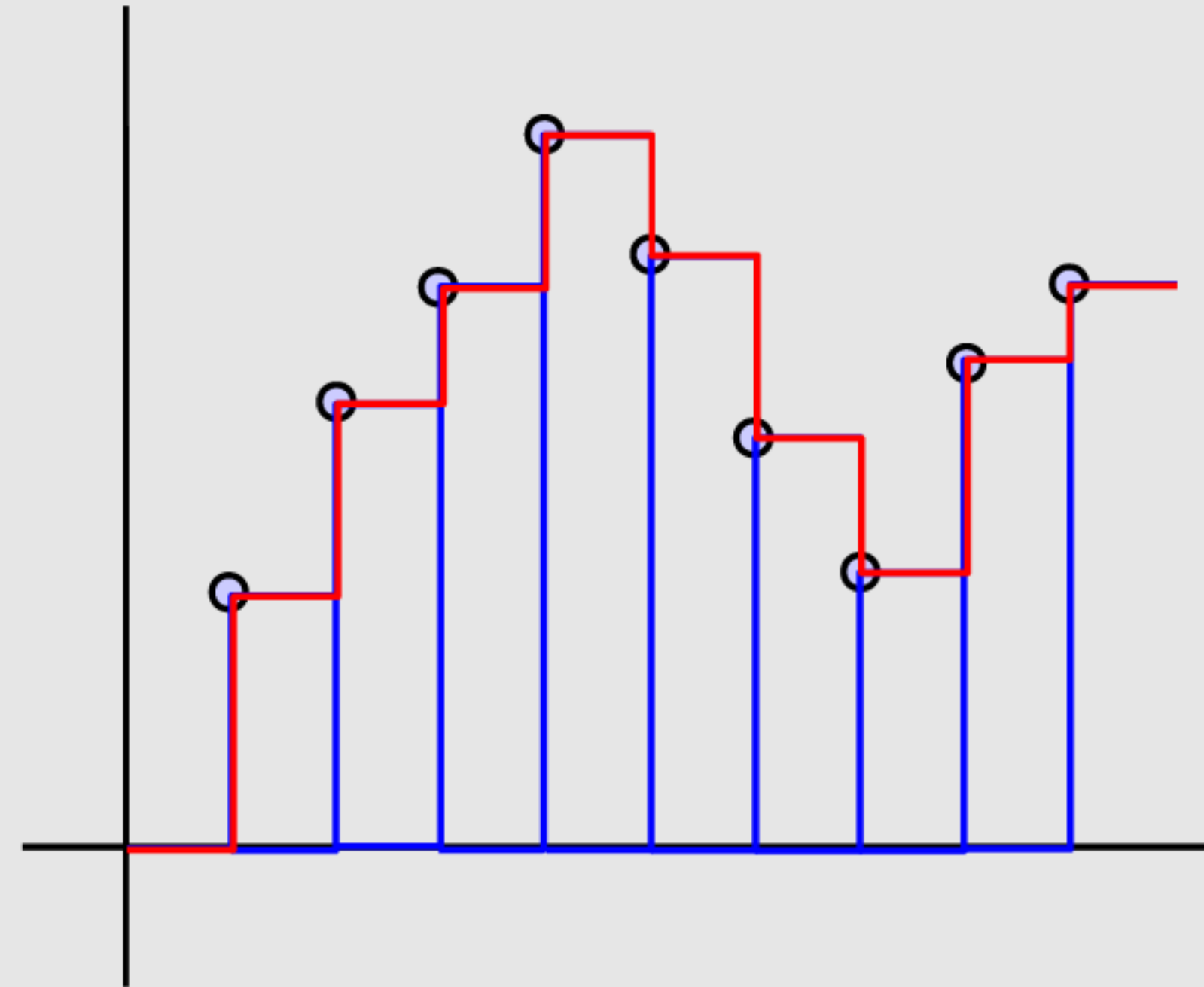
Zeroth-order Hold Interpolation



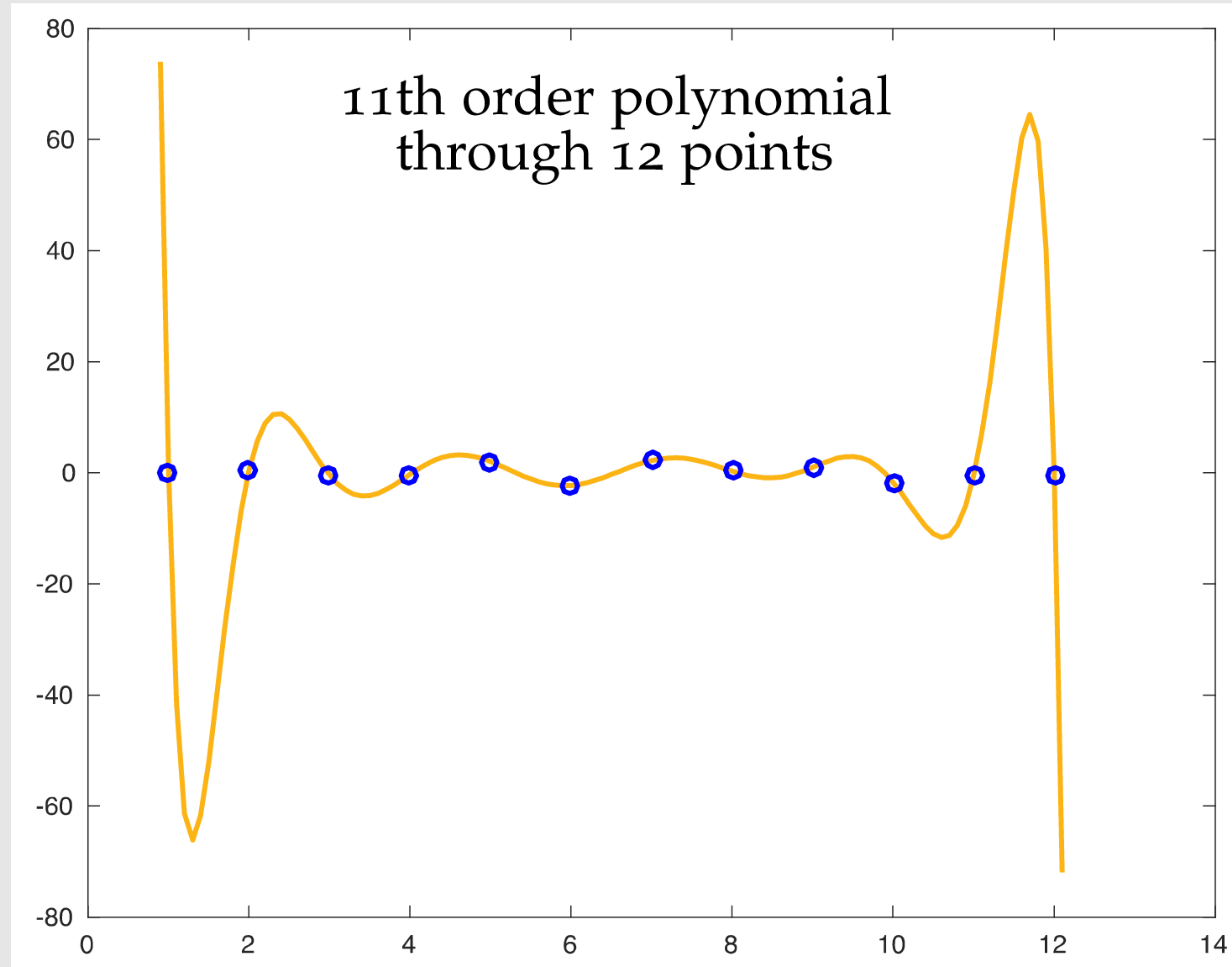
Zeroth-order Hold Interpolation



Zeroth-order Hold Interpolation



asdf



Polynomial Interpolation

