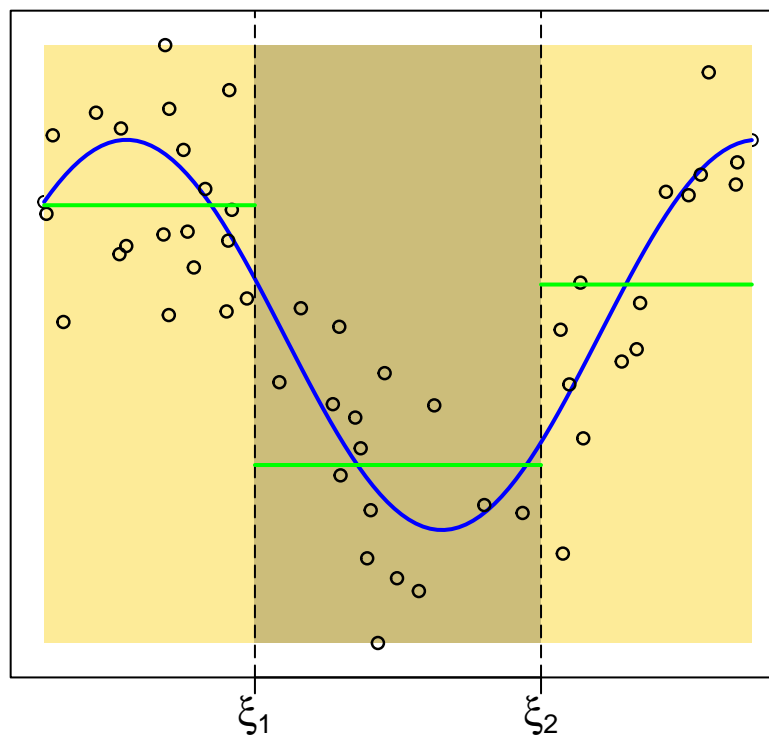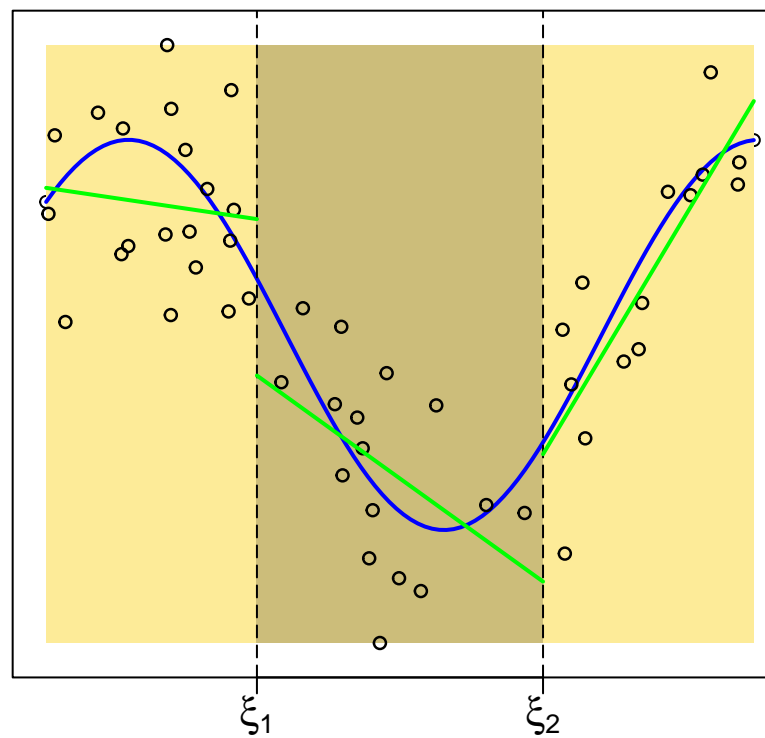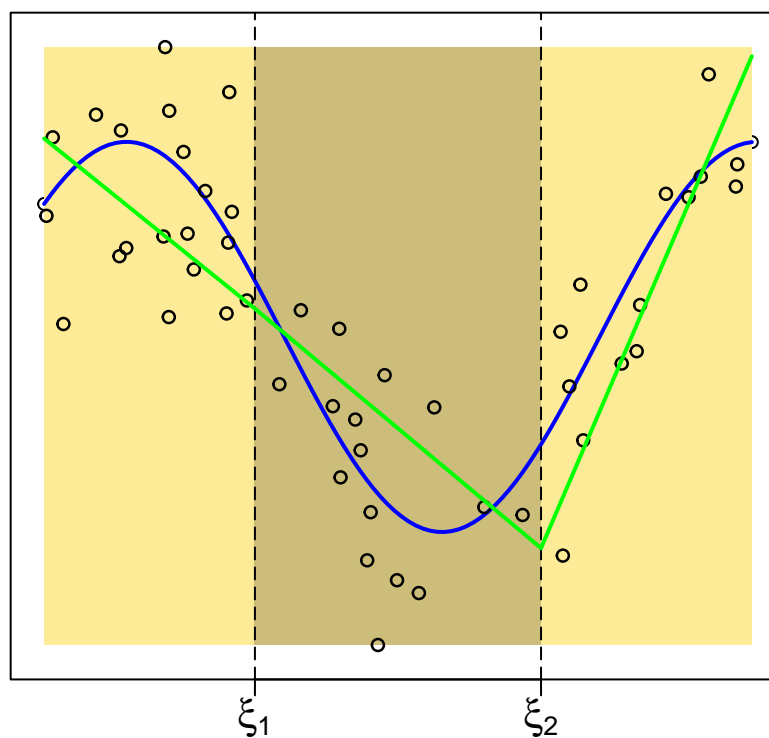**Piecewise Constant**

Piecewise Linear

Continuous Piecewise Linear

Piecewise−linear Basis Function

ξ_1 ξ_2

$(X - \xi_1)_+$