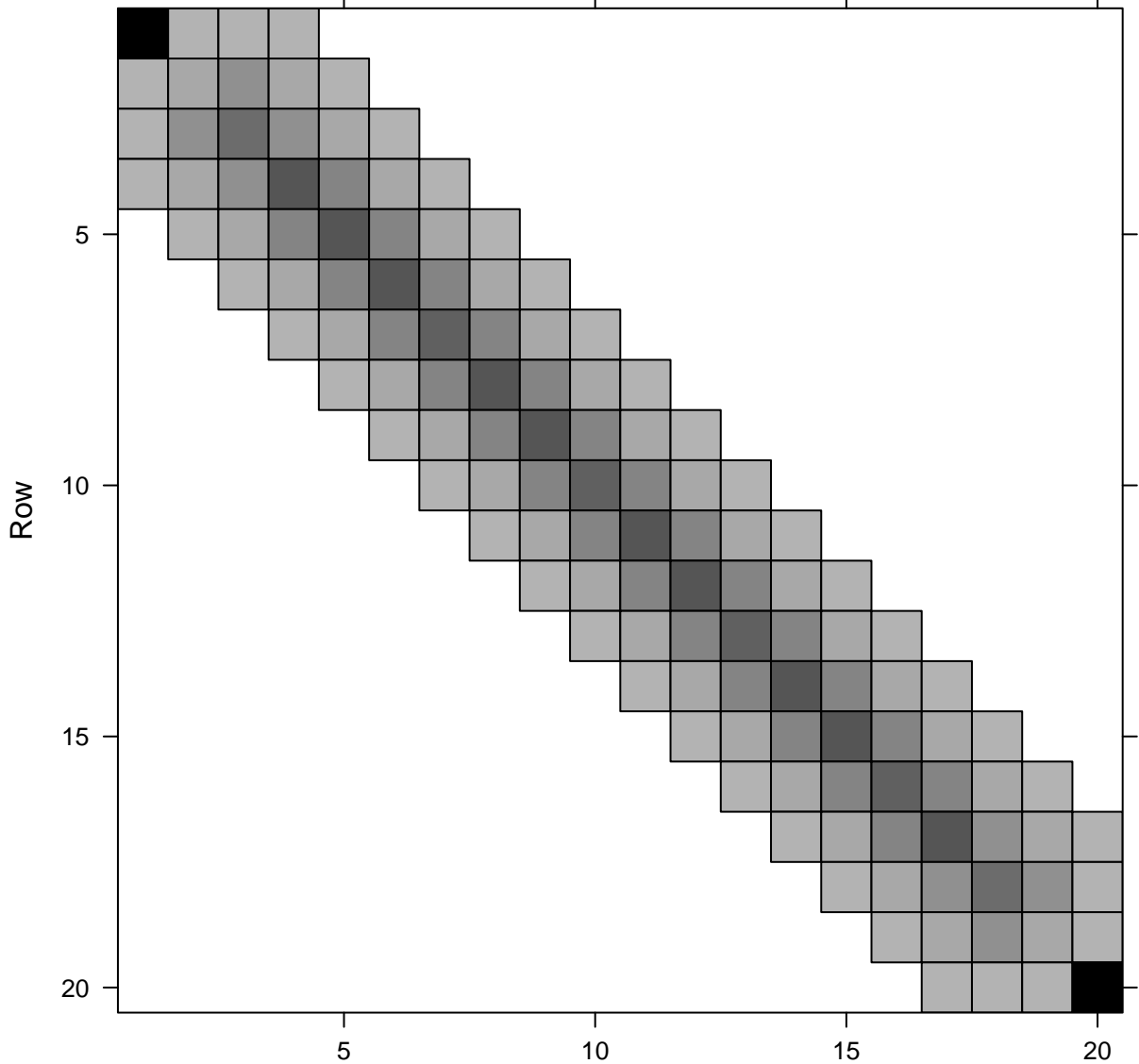


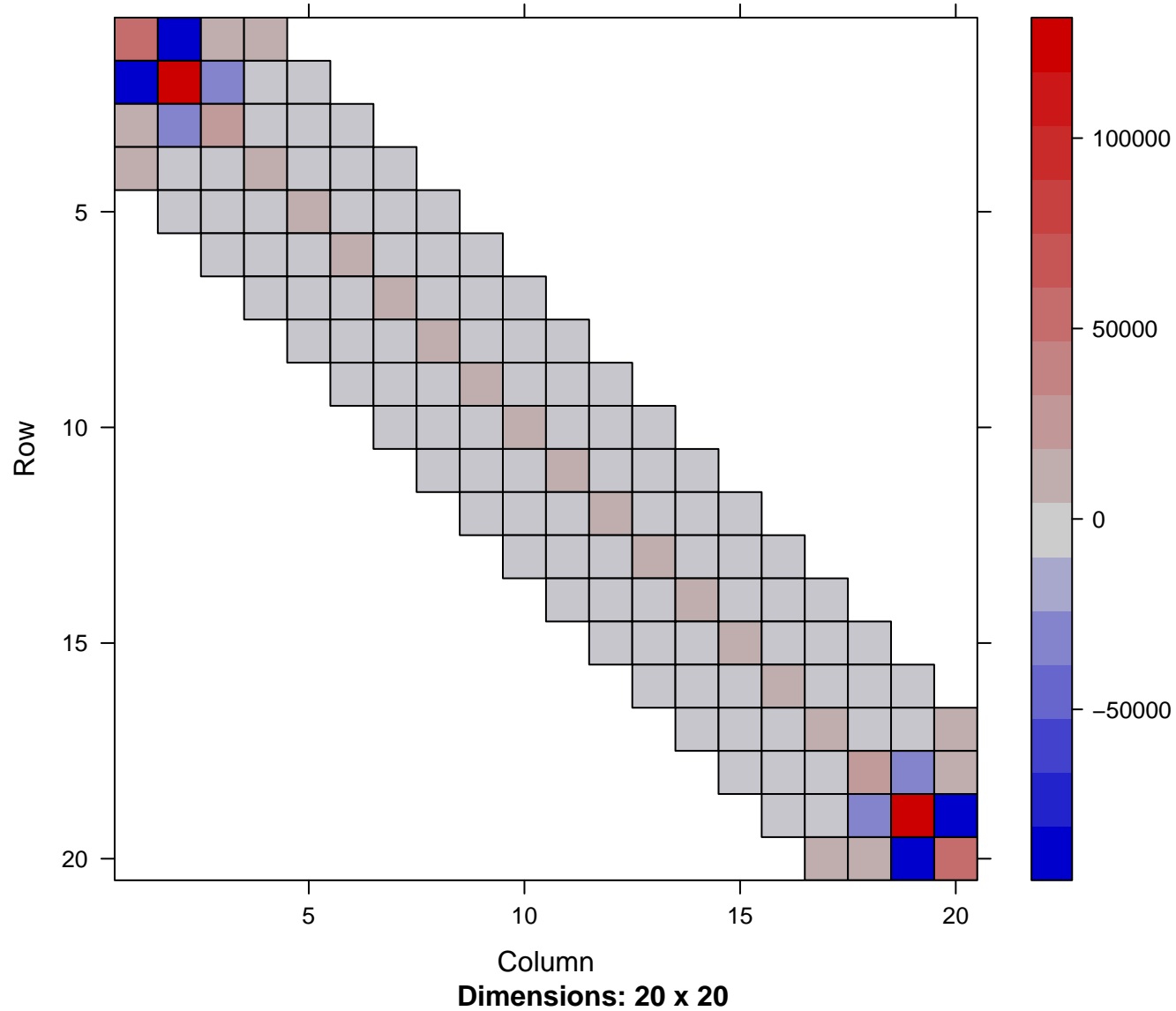
$$X'WX$$



Column

Dimensions: 20 x 20

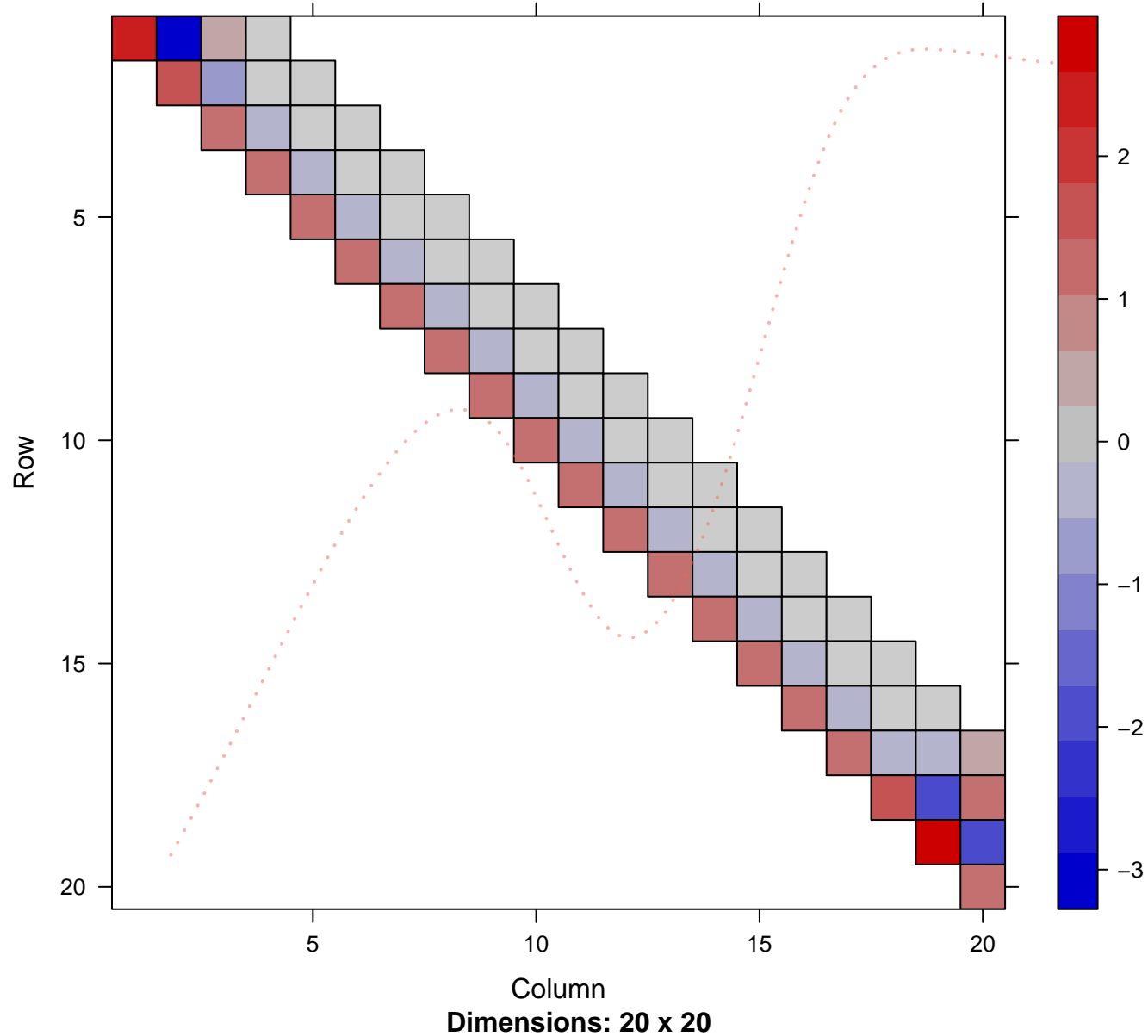
$$\Sigma = \Omega, \text{ where } \Omega_{j,k} = \int B_j''(t) B_k''(t) dt$$

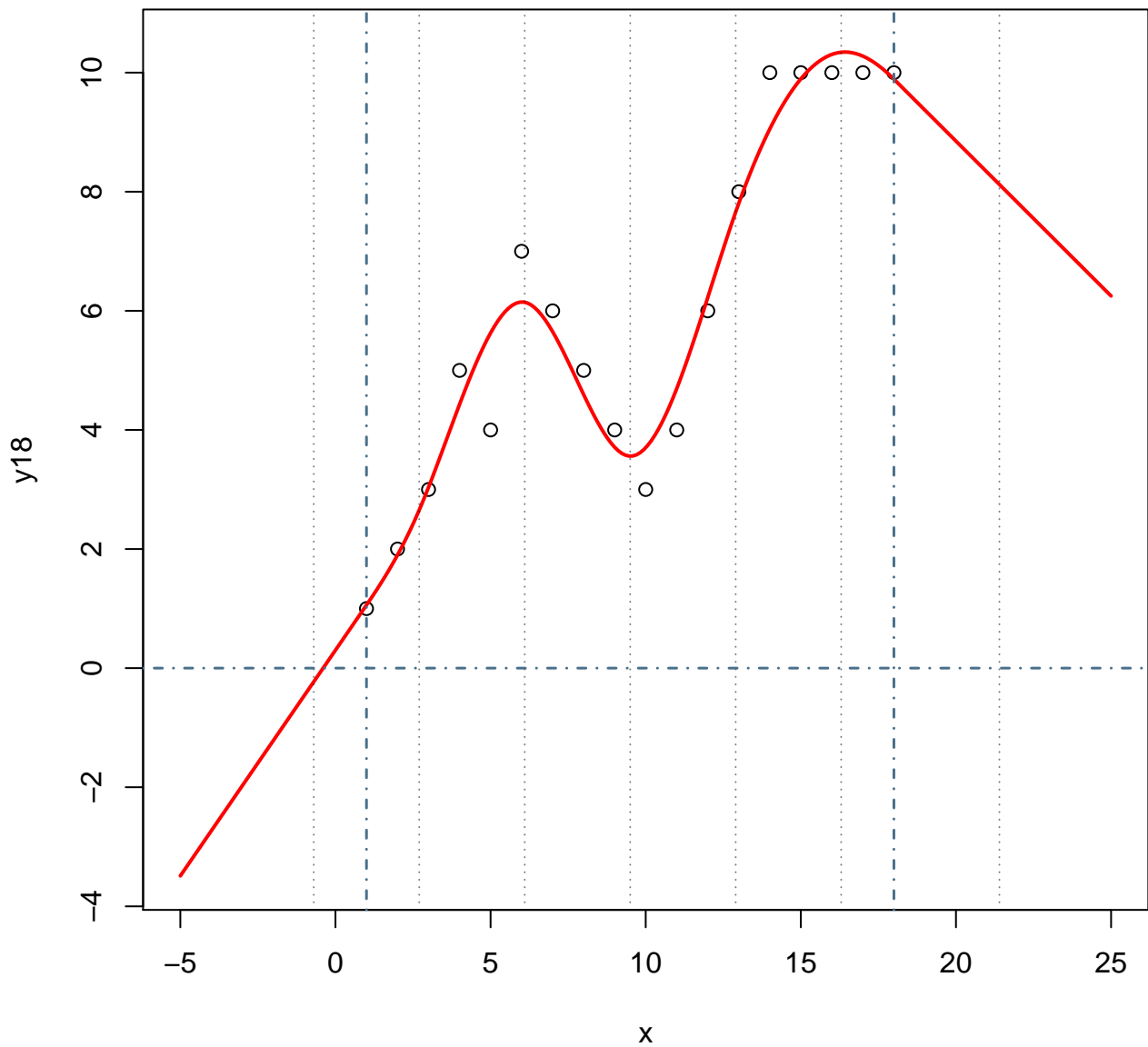


$$X'WX + \lambda \Sigma$$

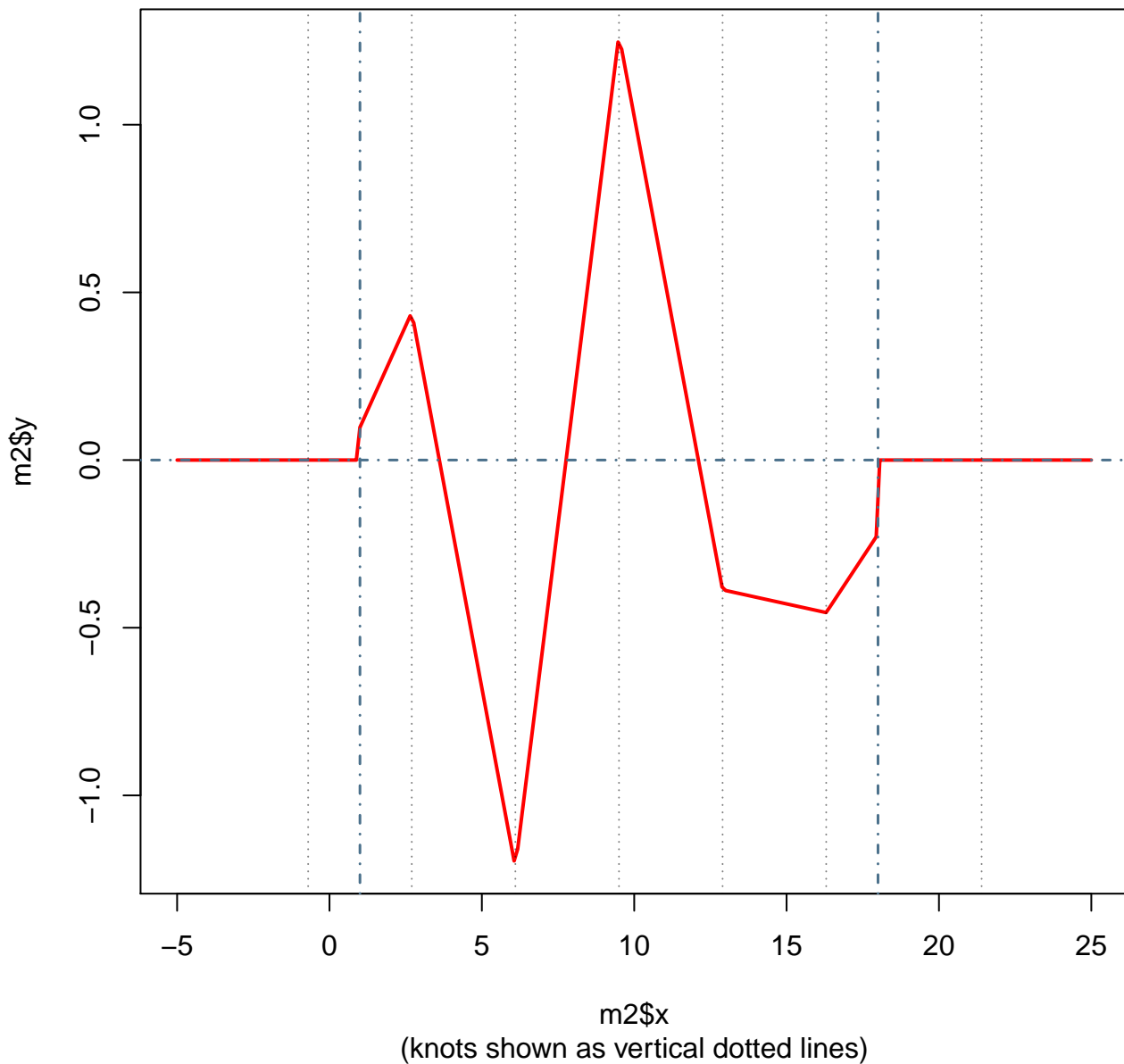


$$R = \text{chol}(X'WX + \lambda \Sigma)$$





$m''(x)$ -- for $m(.) := \text{smooth.spl}(*, \text{all.knots}=c(..))$



$m'(x)$ -- for $m(.) := \text{smooth.spl}(*, \text{all.knots}=c(.))$

