202A-HW6_4),5)

Jiayu Wu 2017/11/15

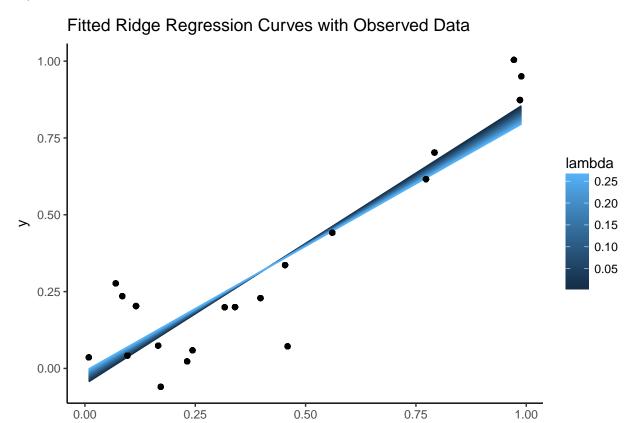
4)

Table 1: Time for Spline Regression with Competing Methods (n=20, p=100)

	user.self	sys.self	elapsed
sweep	0.371	0.003	0.376
$sweep_c$	0.023	0.000	0.024
qr	0.269	0.004	0.273
qr_c	0.230	0.000	0.230

C is significantly faster than R. QR algorithm is a lot faster than Sweep algorithm by comparing qr and sweep, however solve() function in R is too time-consuming, so both qr and qr_c are slower than sweep_c.

)



Fitted Spline Regression Curves with Observed Data

