



7.3 Review Questions

7.3.R1

1/1 point (graded)

In terms of model complexity, which is more similar to a smoothing spline with 100 knots and 5 effective degrees of freedom?

☒ A natural cubic spline with 5 knots

☐ A natural cubic spline with 100 knots



Explanation

Even though the smoothing spline has 100 knots, it is penalized to be smooth, so it is about as complex as a model with 5 variables. The natural cubic spline has 5 degrees of freedom is such a model.

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Answers are displayed within the problem