Assessing Performance

Review Related Lesson

8/13 points earned (61%)

You haven't passed yet. You need at least 80% to pass.
Review the material and try again! You have 3 attempts every 8 hours.

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1 / 1
points

1.
If the features of Model 1 are a strict subset of those in Model 2, the TRAINING error of the two models can **never** be the same.

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1 / 1
points

2.
If the features of Model 1 are a strict subset of those in Model 2, which model will USUALLY have lowest TRAINING error?

✖ 0 / 1 points

3.

If the features of Model 1 are a strict subset of those in Model 2. which model will USUALLY have lowest TEST error?

✖ 0 / 1 points

4.

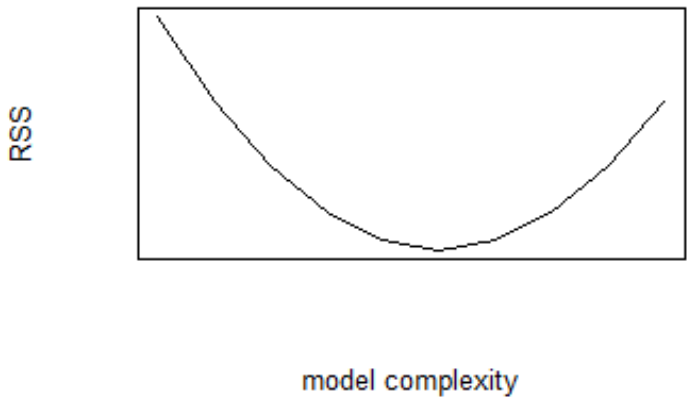
If the features of Model 1 are a strict subset of those in Model 2, which model will USUALLY have lower BIAS?

✖ 0 / 1 points

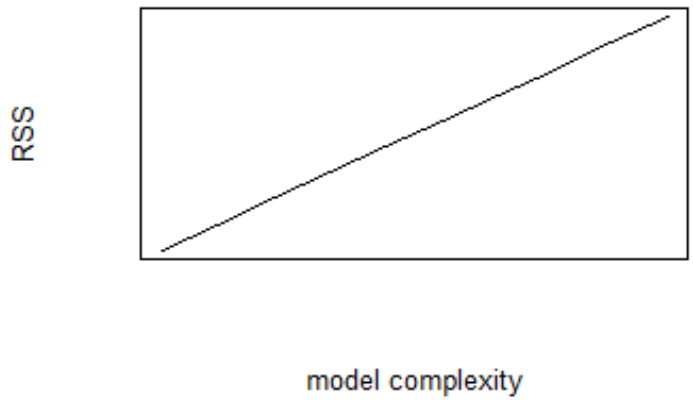
5.

Which of the following plots of model complexity vs. RSS is most likely from TRAINING data (for a fixed data set)?

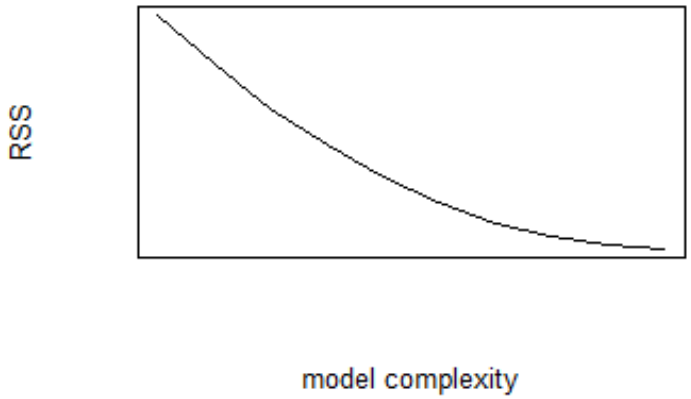
a



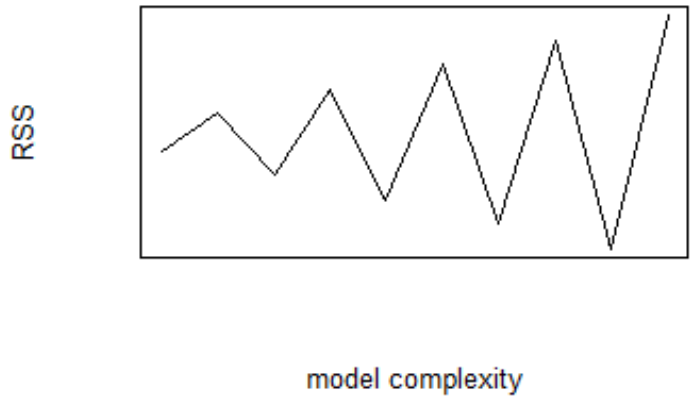
b



c



d



0 / 1
points

6.

Which of the following plots of model complexity vs. RSS is most likely from TEST data (for a fixed data set)?

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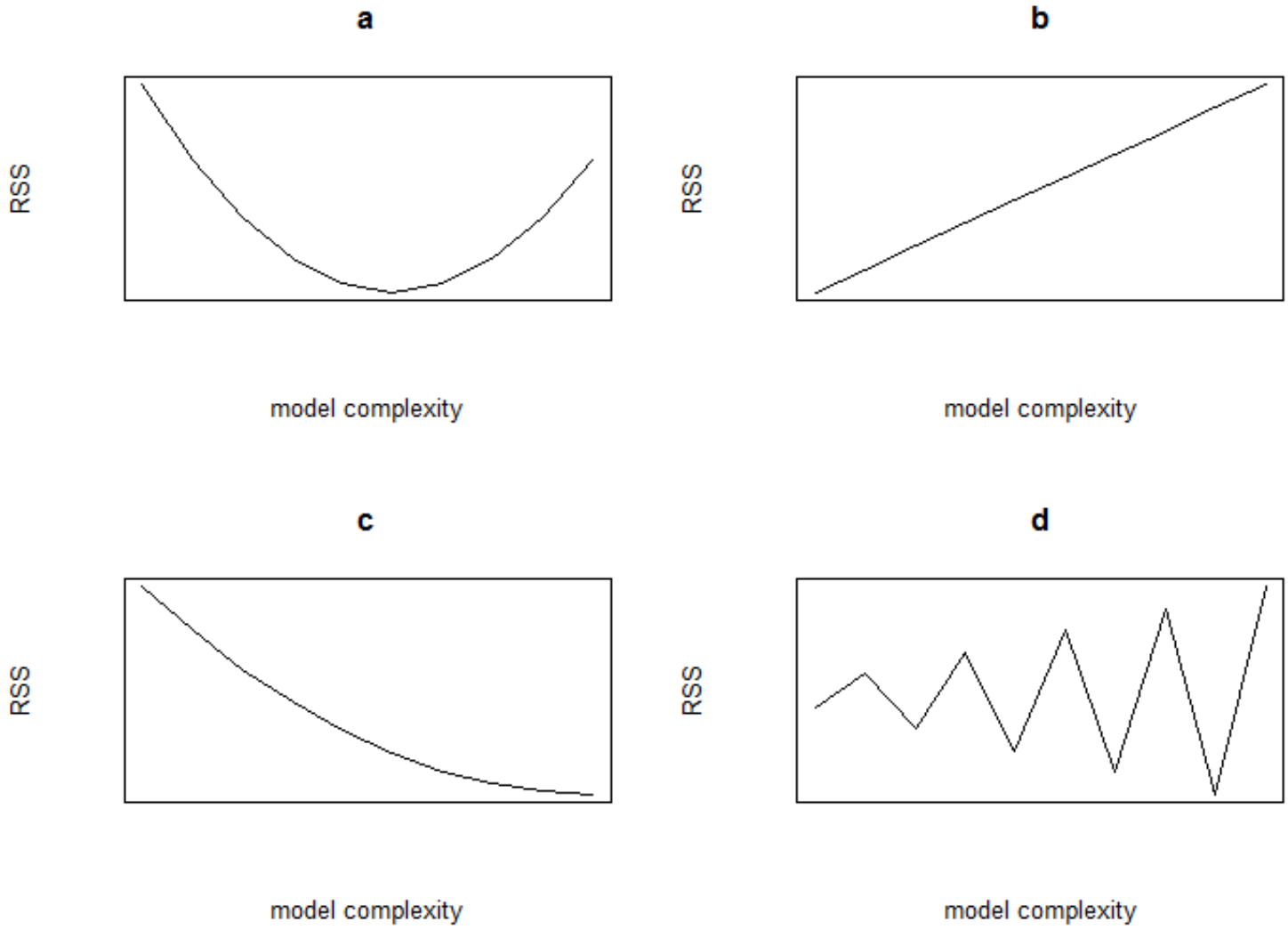

1 / 1
points

7.
It is **always** optimal to add more features to a regression model.

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1 / 1
points

8.
A simple model with few parameters is most likely to suffer from:

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1 / 1
points

9.
A complex model with many parameters is most likely to suffer from:

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1 / 1
points

10.
A model with many parameters that fits training data very well but does poorly on test data is considered to be

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0 / 1
points

11.
A common process for selecting a parameter like the optimal polynomial degree is:

1 / 1
points

12.
Selecting model complexity on test data (choose all that apply):

1 / 1
points

13.
Which of the following statements is true (select all that apply): For a **fixed model complexity**, in the limit of an infinite amount of training data,