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5.5 Review Questions

5.5.R1

1/1 point (graded)

If we have n data points, what is the probability that a given data point does not appear in a bootstrap sample?

✓ Answer: (1-1/n)^n

$$\left(1-\frac{1}{n}\right)^n$$

Explanation

To construct a bootstrap sample, we repeatedly draw a single data point from a sample of size n, n times. Any given data point has a 1-1/n chance of not being selected in each draw. Hence, the chance of not being selected in any of the n draws is (1-1/n)^n

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1 Answers are displayed within the problem

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