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Representative Joint Distributions - Quiz

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Question 1

1 point possible (graded)

Using the below graph, for each of the three players, approximately what percentage of their successful shot attempts ("shots made") were from further than 20 feet away from the basket?

Summarizing and Describing Data

Finger Exercises due Oct 17, 2016 05:00 IST



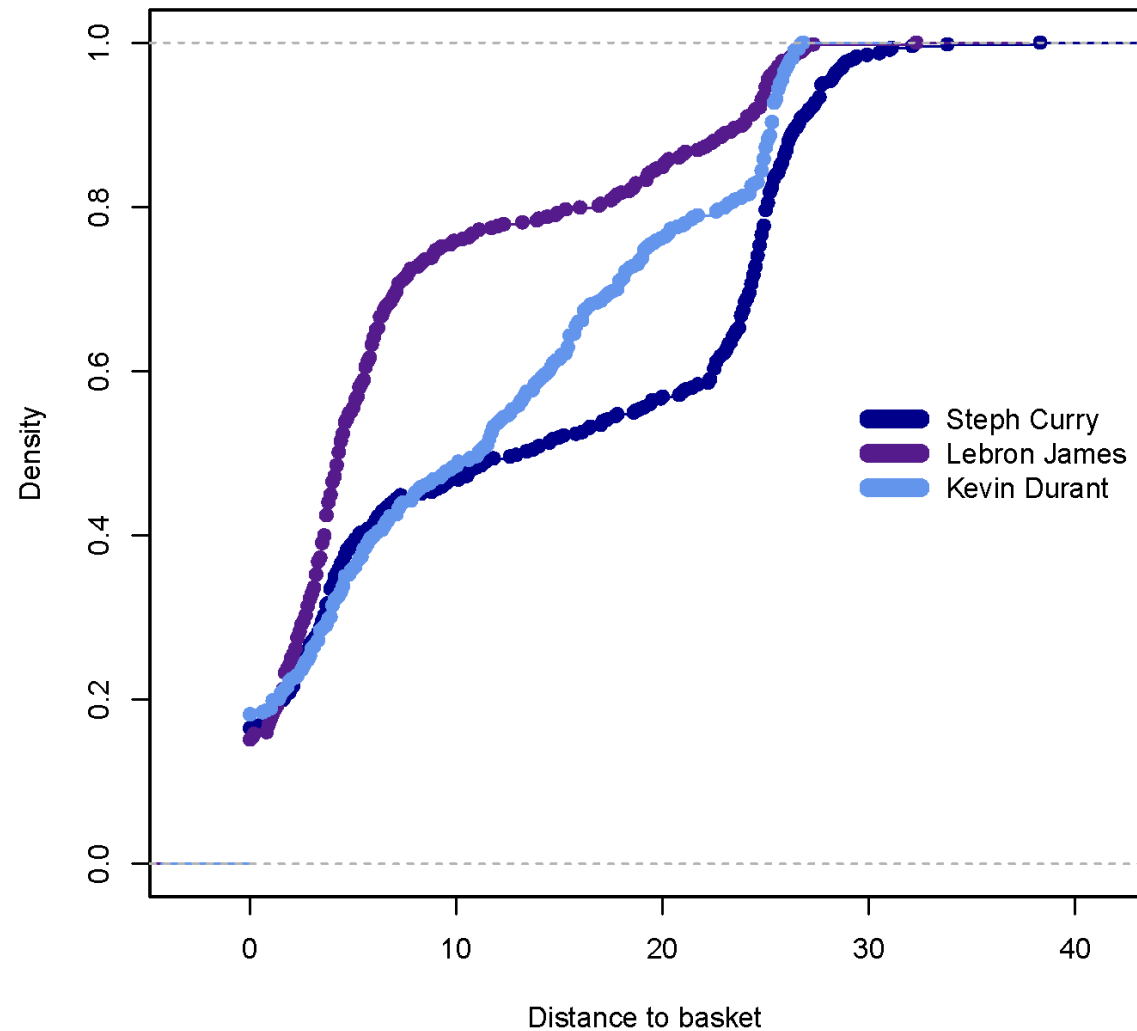
Module 3: Homework

Homework due Oct 10, 2016 05:00 IST



- ▶ Module 4: Joint, Marginal, and Conditional Distributions & Functions of Random Variable
- ▶ Module 5: Moments of a Random Variable, Applications to Auctions, & Intro to Regression
- ▶ Module 6: Special Distributions, the Sample Mean, the Central Limit Theorem, and Estimation

CDF of Shot Distance Across Players (Shots Made)



- ▶ [Module 7: Assessing and Deriving Estimators - Confidence Intervals, and Hypothesis Testing](#)
- ▶ [Module 8: Causality, Analyzing Randomized Experiments, & Nonparametric Regression](#)
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- ▶ [Module 11: Intro to Machine Learning and Data Visualization](#)
- ▶ [Module 12: Endogeneity.](#)

☐ a. James: 90%, Durant: 75%, Curry 55%

☐ b. James: 25%, Durant: 35%, Curry 40%

☒ c. James: 15%, Durant: 25%, Curry 45%

☐ d. James: 0%, Durant: 40%, Curry 80%

Explanation

The percentage of successful shot attempts that were further than 20 feet, is 1-(the density of shots made less than 20 feet away). Using the graph above, we can obtain the density of shots made less than 20 feet away.

Submit

You have used 0 of 2 attempts

Question 2

1 point possible (graded)

Suppose that basketball rules change and the 3-point line becomes a straight line at a fixed distance from the baseline. How would you expect the histogram of distance from baseline (Figure 1, below) and distance from midline (Figure 2, below) to change? The histogram of distance from baseline would become _____, and that of distance from midline would become _____.

Instrumental Variables, and Experimental Design

- ▶ Exit Survey
- ▶ Final Exam

Figure 1:

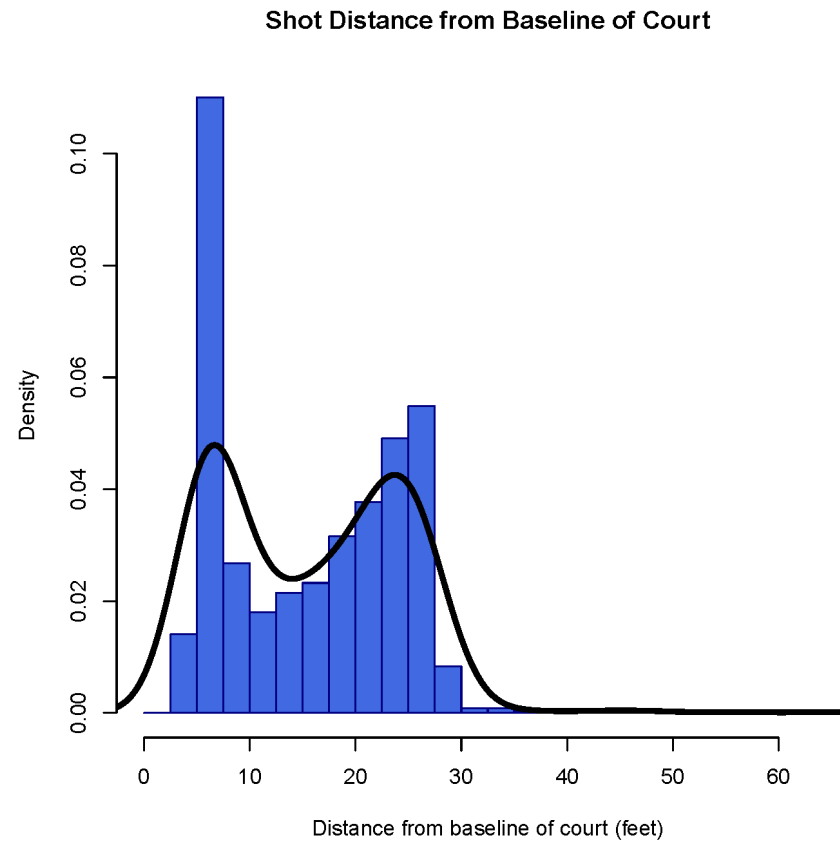
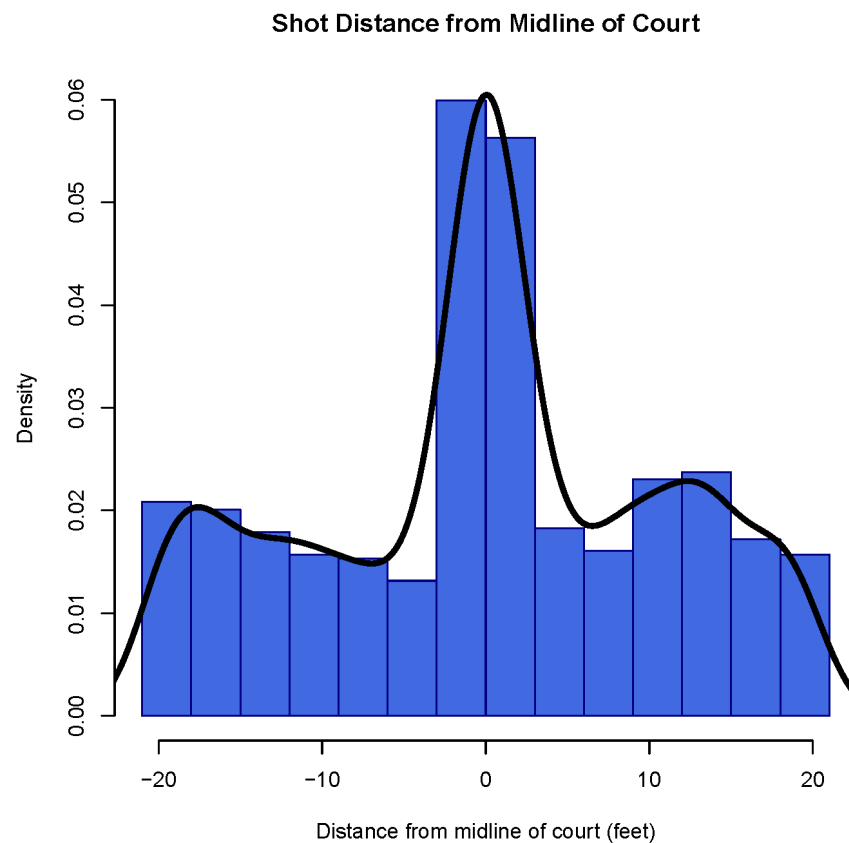


Figure 2:



☒ a. More bimodal, more unimodal

☐ b. More bimodal, left-skewed

☐ c. More unimodal, more unimodal

☐ d. More bimodal, right-skewed

Explanation

If the 3-point line becomes a straight line at a fixed distance from the baseline, we would expect for people to shoot less from the sides. We would still expect some shooters to bunch around the 3-point line. So there would be bunching close to the basket in the middle, and at the 3-point line, likely also in the middle (because it's closest to the basket out of all points on the 3-point line). Hence the answer above.

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You have used 0 of 2 attempts

Discussion

Topic: Module 3 / Representative Joint Distributions - Quiz

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