Exercise 2

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Lecture Sequence due Dec 15, 2022 07:30 +08 Completed

Exercise 2

2/2 points (graded)

1. If you wanted to run a simulation that estimates the value of $\sqrt{2}$ in a way similar to the Pi estimation shown in lecture, what geometric shape would you throw needles at?

- A square, with a smaller square drawn inside it. The smaller square is formed by connecting the larger square's midpoints.
- A cube with a sphere inscribed inside it.
- A flat line ranging from 0 to root 2 and with a subsection that spans from 0 to 1. ✔

2. What introduced the error for Archimedes' method of calculating Pi?

- Incorrect conceptual model.
- Calculation error.
- Not enough samples. ✔

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