



< Previous



Next >

Exercise 2

🔖 Bookmark this page

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.



Submit

Exercise 2

Hide Discussion

Topic: Lecture 8 / Exercise 2

Show all posts ▾

by recent activity ▾

- [Estimating the value of root 2](#) 2
- While estimating the value of pi we built a conceptual model where pi was a fraction of the total area. Even though we did not know ...
- [Achimedes' error](#) 2



edX

[About](#)

[Affiliates](#)

[edX for Business](#)

[Open edX](#)

[Careers](#)

[News](#)

Legal

[Terms of Service & Honor Code](#)

[Privacy Policy](#)

[Accessibility Policy](#)

[Trademark Policy](#)

[Sitemap](#)

Connect

[Blog](#)

[Contact Us](#)

[Help Center](#)

[Security](#)

[Media Kit](#)



© 2022 edX LLC. All rights reserved.

深圳市恒宇博科技有限公司 [粤ICP备17044299号-2](#)