Reading Assignment 22:
Dedekind on Continuity

Required Readings: [Dedekind, 2012]. "Continuity and Irrational Numbers." Introduction and Sections 1-5.

Questions:

- What is the "essence of continuity" according to Dedekind?

- If physical space were not infinite, what would be the effect on mathematics and our reasoning about continuity according to Dedekind?

- What is a "cut"? How are cuts related to the "creation" of irrational numbers according to Dedekind?

References

Richard Dedekind. *Essays on the Theory of Numbers.* Dover Publications, June 2012.