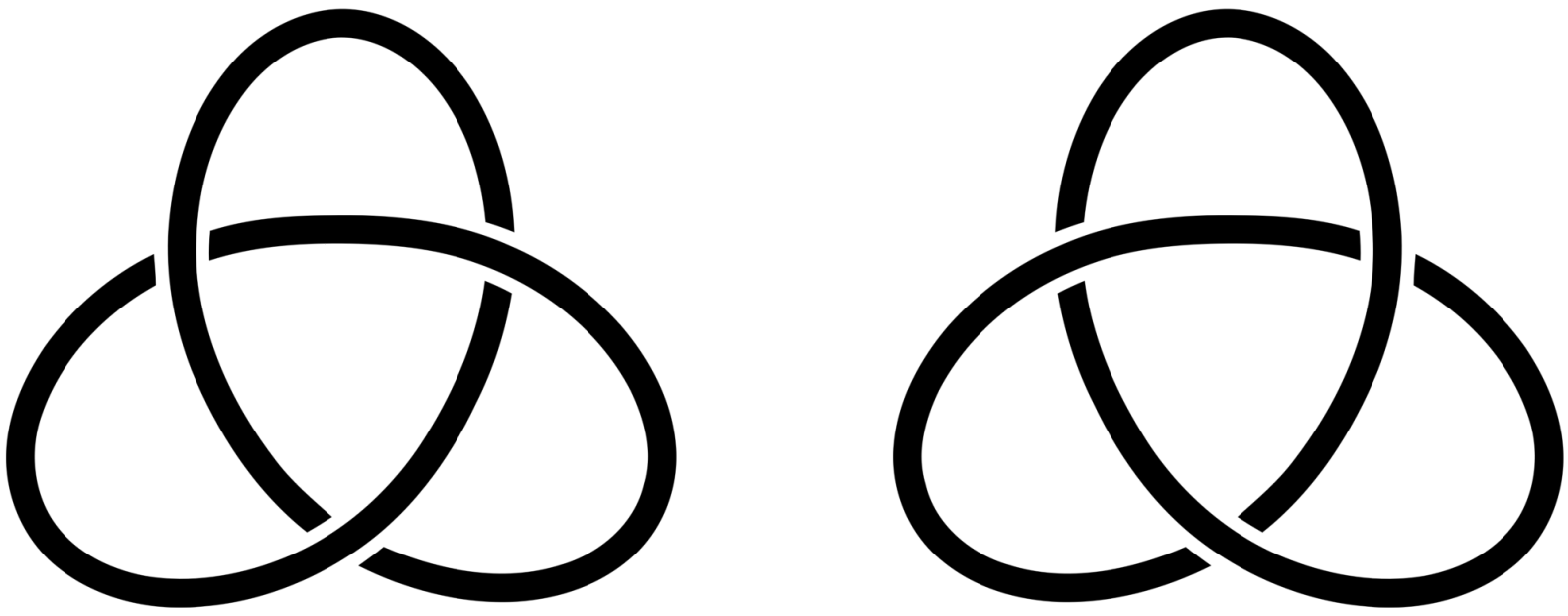
Welcome to Math 436, Introduction to Topology



Announcement

2018 Sue Geller Undergraduate Lecture

Tonight, Wednesday January 17

6:00–7:00 in Blocker 117

Speaker: Judy L. Walker, University of Nebraska–Lincoln

Title: Mathematics Makes Communication Possible

What properties does an equivalence relation have?

- reflexivity: every element is related to itself
- symmetry: if x is related to y, then y is related to x
- transitivity: if x is related to y and y is related to z, then x is related to z

The capital Greek alphabet

$$A\ B\ \Gamma\ \Delta\ E\ Z\ H\ \Theta\ I\ K\ \Lambda\ M$$
$$N\ \Xi\ O\ \Pi\ P\ \Sigma\ T\ Y\ \Phi\ X\ \Psi\ \Omega$$

Exercise

What are the equivalence classes of the Greek letters under continuous deformation?

Assignment due next class

- Read section 1.1 in the textbook.
- Write solutions to numbers 1 and 4 in Exercises 1.1.