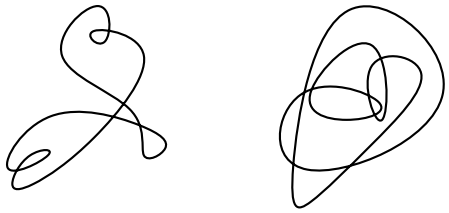
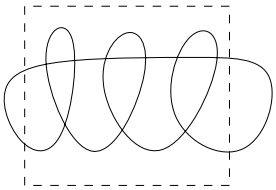
Comprehension questions

PROBLEM 17.1. *Draw an explicit sequence of moves that transforms one of these loops into the other:*



PROBLEM 17.2. *Show that the J^- and J^+ invariants for a loop are the same as for its mirror image (the reflection along any axis).*

PROBLEM 17.3. *Compute the J^+/J^- invariants of this (for a general k), and explain how you did it:*

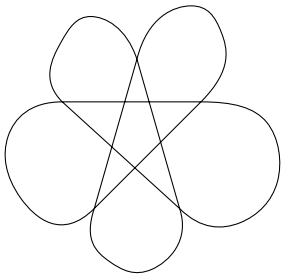


k curls of this type (here, $k = 3$ is drawn)

PROBLEM 17.4. *Compute the J^+/J^- invariants of the loop from Problem 16.5 (for a general k), and explain how you did it.*

PROBLEM 17.5. *Re-compute the J^--invariant of the loop from Example 17.7 using the Viro-Gutkin formula.*

PROBLEM 17.6. *Compute the J^+/J^- invariants of this, and explain how you did it:*



PROBLEM 17.7. *Compute the J^+/J^--invariants of the loop from Example 16.8. It's enough to just state the answer.*

18.900 Geometry and Topology in the Plane

Spring 2023