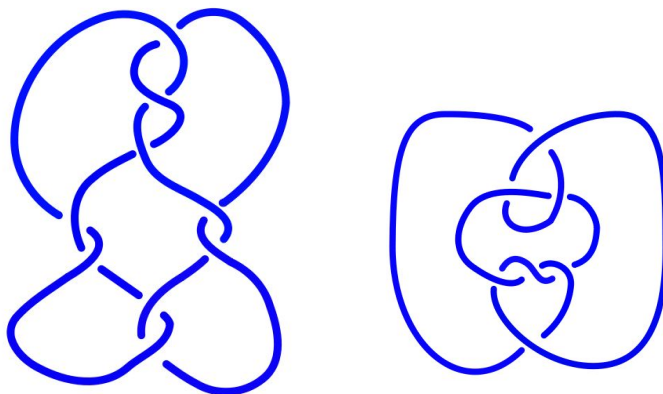


**Problem 1.** Show the following are unknots using Reidemeister moves:



**Problem 2.** Given the following Gauss codes, draw pictures of the resulting knots. Do you recognize any of them? For the first two, write down common names for the knots.

1. 1u2u3u1o2o3o
2. 1u3o2u1o3u2o
3. 1u4o3u1o2u7u6o3o4u2o5o9u8o6u7o5u9o8u

**Problem 3.** Compare the number of 3-colorings for the following knots:

