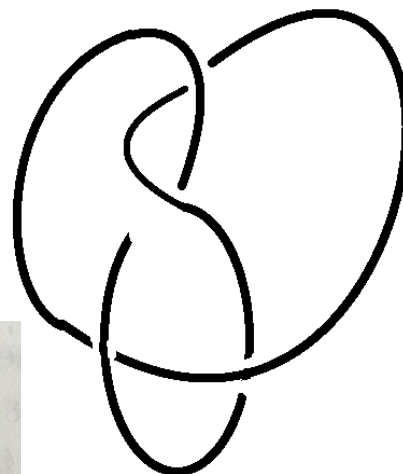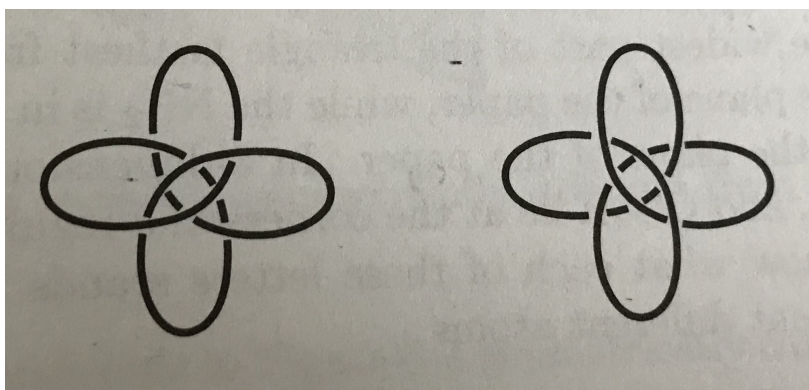# Topology's kind of Mirrors

While working in a group make sure you:

- Expect to make mistakes but be sure to reflect/learn from them!
- Are civil and are aware of your impact on others.
- Assume and engage with the strongest argument while assuming best intent.

1. For each of the following, determine

   (a) if the knot K is equivalent to its mirror K^*
   (b) if the current projection is geometrically achiral.

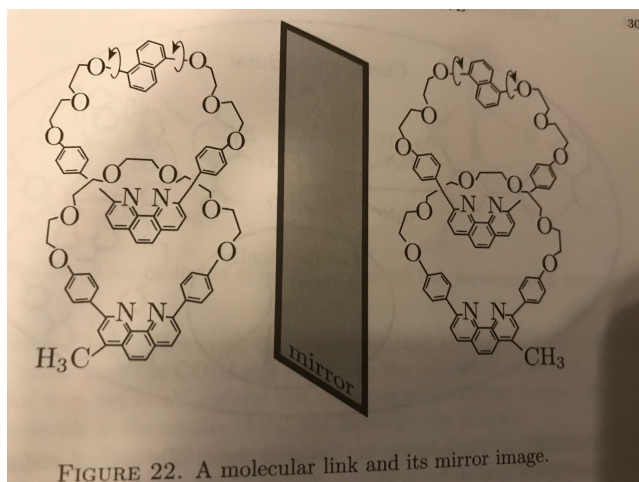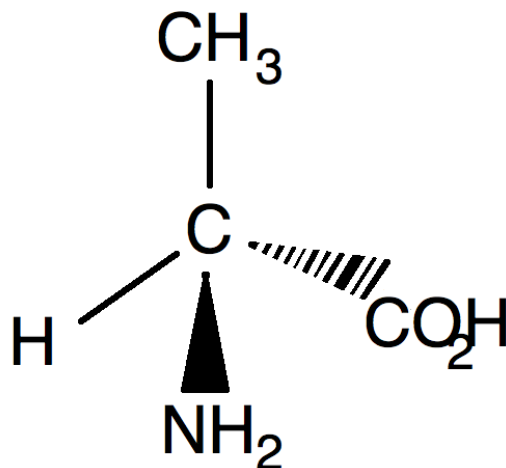2. Consider the example to the right, is this a Euclidean Rubber Glove?

FIGURE 22. A molecular link and its mirror image.

3. If a molecule is a Euclidean Rubber Glove, is it necessarily a Topological Rubber Glove? Why or why not?

4. What relationship exists between the set of Euclidean Rubber Glove molecules and the set of Topological Rubber Glove molecules?

5. For the example to the right, determine

   (a) if the chemical is chemically achiral
   (b) if the chemical is topologically achiral

6. What relationship exists between Topological chirality and chemical chirality?