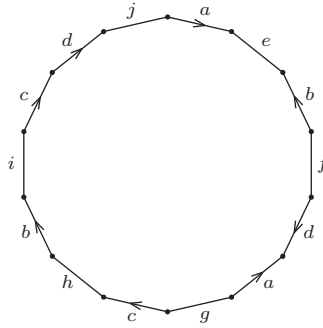
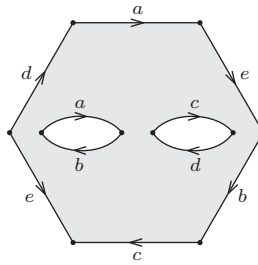


Additional Exercises for Chapter 3 of *Topology Now!*

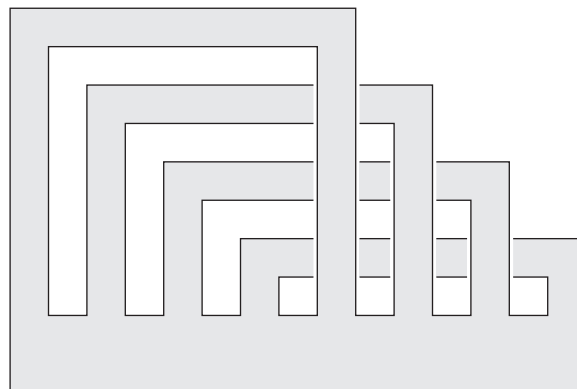
1. Identify the surface obtained when edges of a 14-gon are glued as shown in the figure below.



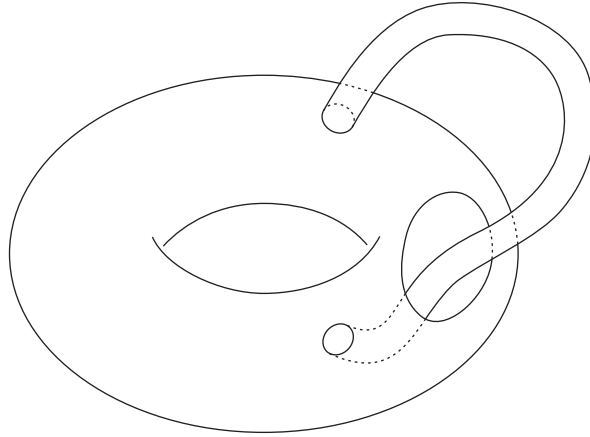
2. Identify the surface obtained when edges of a hexagon with holes is glued as shown in the figure below.



3. Identify the surface formed from a disk with four overlapping flat strips as shown in the figure below.



4. Start with a torus in \mathbb{R}^3 . Cut three circular holes in it. Attach a tube to one of the holes on the outside of the torus, run the tube through another of the holes, and attach the other end of the tube to the third hole on the inside of the torus. Identify the resulting surface as depicted in the figure below.



5. Determine the genus of the knot given below. Justify your answer.

