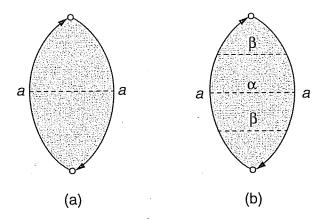
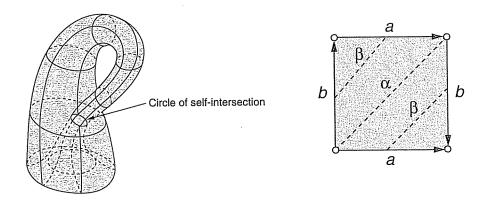
ADDITIONAL PROBLEMS

Problem 1. What do you get when you cut a projective plane in half, as shown below in (a)?



Problem 2. What do you get when you cut a projective plane along the two loops α and β as shown above in (b)?

Problem 3. Slice the space model of the Klein bottle, as drawn below, along the vertical plane that splits it into two symmetric halves. What are the two pieces obtained?



Problem 4. What do you get when you cut a Klein bottle along each of the two loops α and β as shown above?