1) Compute the Euler characteristic $\chi = V - e + f$ of the following ways to cut up the surfaces shown:
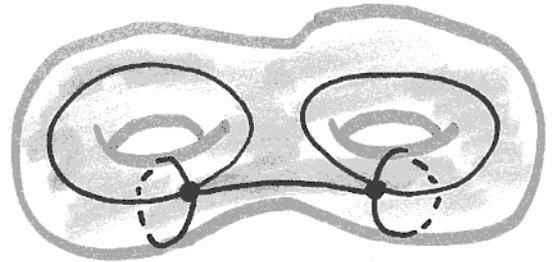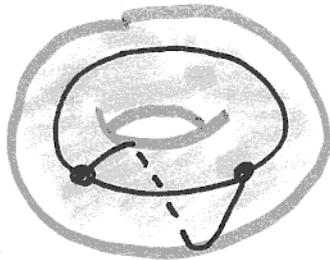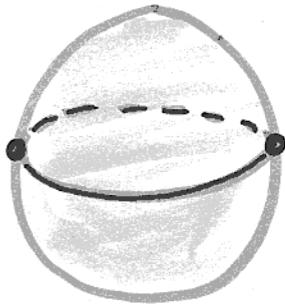
2) Draw several other ways of cutting up surfaces of genus $g \leq 3$ (3 or fewer handles), and compute their Euler characteristics using your drawings.

3) For each gluing pattern shown, decide
   a) how many vertices does the surface have?
   b) is the surface orientable?
   c) what is its Euler characteristic?
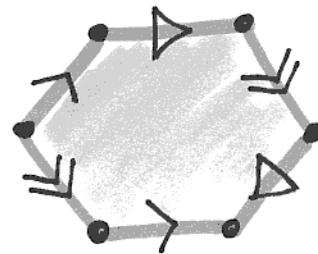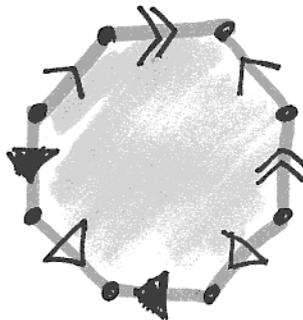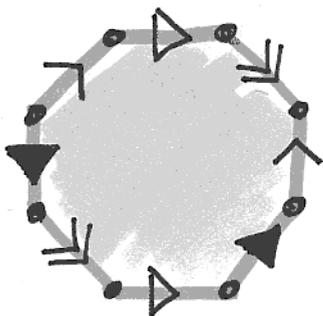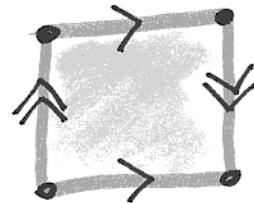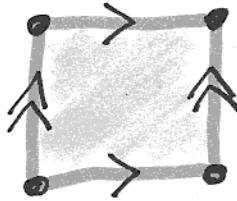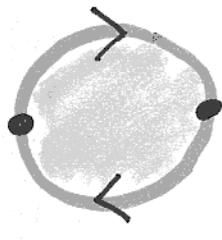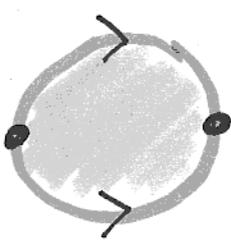
4) How many different gluing patterns are there of each (even) size, for small (2,4,6) sizes?
   Classify the surfaces they represent.