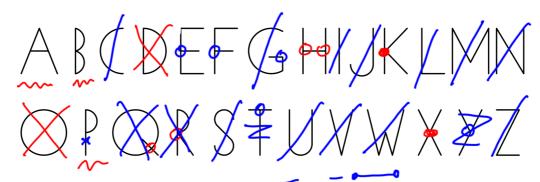


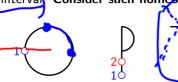
Week 7 tutorial

Exercise 7.0. This is an unseen exercise in Applied Topology. In the diagram below, each letter of the English alphabet is drawn as a union of straight line segments and arcs.



Some letters are homeomorphic: for example, $C \cong J$ both are homeomorphic to a closed interval. Consider such homeomorphisms to be geometrically obvious.





O ≇ **P**: O has no points of connectivity 2 but P has them;

 $T \ncong O$ and $T \ncong P$: T has a point of connectivity 3 while O, P have no such points.

CHALLENGE. Sort the letters into homeomorphism classes. You should have 9 classes.

