A) Asume you are given $n$ disjoint edges $x_1y_1, x_2, y_2, ..., x_ny_n$. You want to know if you can place the endpoints of these edges around a circle so that all of the edges can be drawn inside the circle without crossings. Formulate this as an instance of $SAT$.

B) Show that for any clause $C$ containing $l$ literals, there is a 3-SAT formula with at most $l$ clauses which is satisfied if and only if $C$ is satisfied.