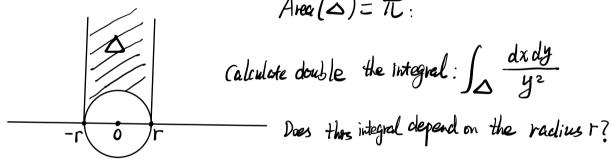
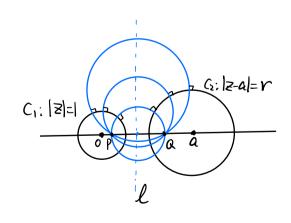
- 1. Use the existence/uniqueness of the equidistant line for any two points (and the arguments similar to the case of \mathbb{R}^2) to complete the proof of 3 reflection theorem for the non-Euclidean geometry (the upper half plane).
- 2. Use calculus to verify that the area of the limit triangle $Area(\Delta) = \pi$:



3 Consider 2 circles (non-tudid lines) (i,Cz that do not intersect:



Prove that the circles that are orthogonal to both Ci and Cz have centers lying on a line land all pass through 2 points P and Q.

(Use equations to find equation for land the) coordinates for P,Q