9. Coefficient of refraction ***(10 points)*** *Equipment:* A thick glass plate having the shape of a half-cylinder, a glass prism, a container with an unknown liquid, a laser pointer, graph paper, ruler.

i) (5 pts) Determine the coefficient of refraction of the half-cylindrical glass plate and estimate the uncertainty of the result.

ii) (5 pts) Determine the coefficient of refraction of the liquid and estimate the uncertainty of the result.