Assignment 3

Oral questions

1. 2.4/16

Questions to be answered in writing

- 1. Assume that the distance of the points O_1 and O_2 is d. Draw a circle of radius r_1 around O_1 and a circle of radius r_2 around O_2 . Express, in terms of equations and inequalities for r_1 , r_2 and d, necessary and sufficient conditions for the two circles to have 0, 1 or 2 points in common. (You do not have to prove your claims, but you have to consider all possibilities, including one circle containing the other one.)
- 2. Provide an example showing that (SSA) does not set up a congruence of triangles. Define a smaller class of triangles for which (SSA) does imply congruence. (Make a restriction on the angles considered, you do not need to formally prove your statement.)