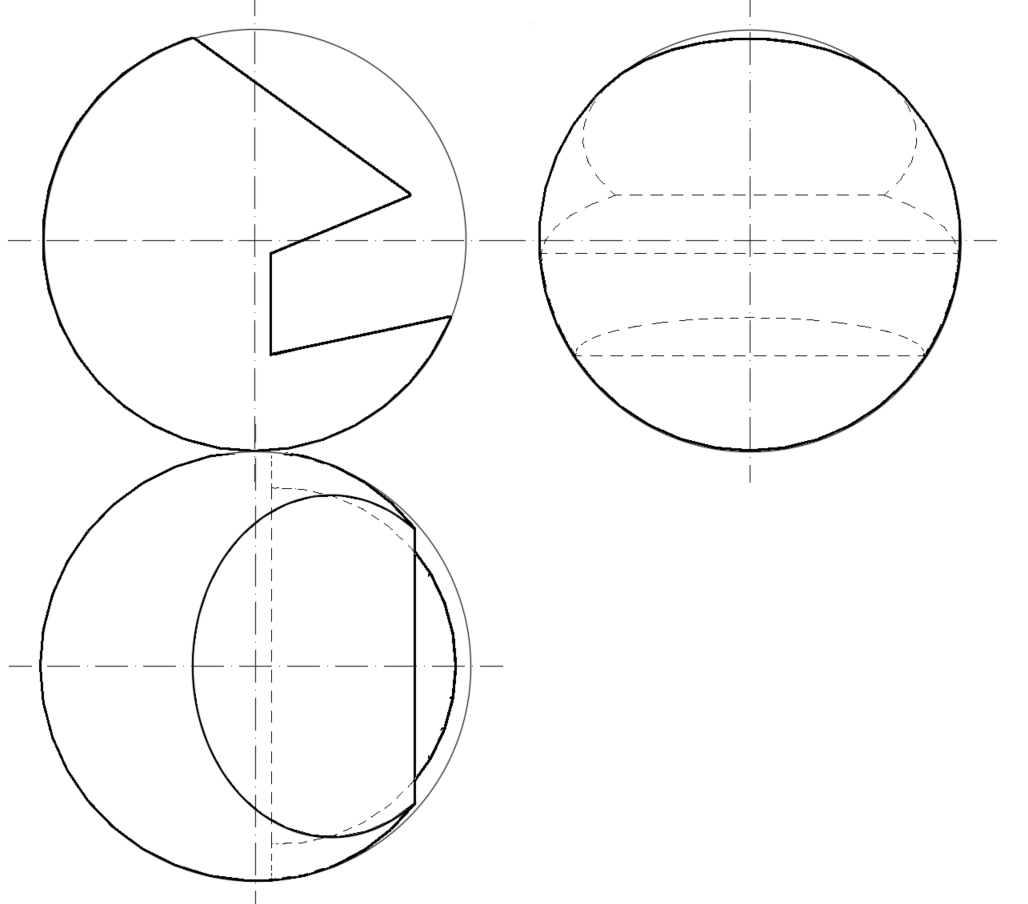
***Result:***

Frontal, horizontal and profile projections of the sphere cut with 4 planes (A3 size, scale 1:1)



Answers to questions 1-4:

1. Planes β and δ are not mutually parallel.

They do not intersect each other within the sphere's outline.

1. Planes α and β mutually intersect within the solid.
2. Diameter of the section equals the diameter of the sphere if the cutting plane goes through the center of the sphere.
3. No, none of the cutting planes goes through the center of the sphere.