

Feedback 17-18

General comments: It was a very short homework, with two short questions. The difficulty was that both questions are not “to compute following an algorithm” but “to think”.

Question 17.4: This question was mostly done reasonably well.

- It was much easier for me to read the solution when it was illustrated! So, whenever it is possible, please, [draw a picture!](#)
- Please, introduce the notation, when you are using something which is not standard in the course (in this question, the vector normal to the plane).

Question 18.4

- All successful solutions used the Clairaut relation. When you want to use it, a good practice would be to say something like “By Clairaut relation, ...”, or even “As S is a surface of revolution, the geodesic should satisfy the Clairaut relation”.
- The question about self-intersections turned out to be difficult (no student in the class answered it in full detail).
- In fact, the self-intersection question is easy, if you think about a local isometry of a plane (where we know all geodesics) and a cone.