12**. Péter Körtesi**

Using GeoGebra to study the Famous Curves of the MacTutor History of Mathematics archive

We will study the Chapter Famous Curves of the MacTutor History of Mathematics archive, see: http://www-history.mcs.st-and.ac.uk/Curves/Curves.html. The GeoGebra softvare is suitable to represent both the set of functions, and the so called associated curves, like evolutes, or involutes, and to experience their relation. The curves are given either in explicit, implicit, parametric or polar coordinate form, and we will explore the power of the softvare to visualize them. The osculating circle, tangents, normals, convex boundary of family of curves or Taylor series will be mentionned as well. The above mentionned Famous curves chapter is suitable as well to offer practical examples for students in applying GeoGebra, and their results can be valourized on the GeoGebra Tube, some of examples:
https://www.geogebra.org/material/simple/id/1226675
https://www.geogebra.org/material/simple/id/1222515
https://www.geogebra.org/material/simple/id/jQNWkzhG
http://www.geogebra.org/m/CAm5xR6s