

Programming Assignment # 2*due: 3-24*

In the circular model of the extended affine plane, plot a cubic (for $-\infty < t < +\infty$) and its first derivative curve (the hodograph).

Find cubics which have ellipses as their hodographs and also cubics which have hyperbolas as their hodographs. Does it make sense to classify cubics according to the type of their hodograph? I don't know the answer to this myself, so that's a little research project.