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Lecture 1 Geometry of Algebraic Curves notes 2.  $r(D) = \ell(D) - 1$ . In the literature, both notations  $\ell$ ;rare used. The basic problem is this: given  $D$ , nd explicitly these vector spaces  $L(D)$ , and in particular the dimension  $\ell(D)$  and the number  $r(D)$ . This is a completely solved problem, and not just by general theorems like Riemann-Roch.

## Geometry of Algebraic Curves

The current book is an excellent research monograph and reference book in the theory of complex algebraic curves and their moduli, which is very likely to become an indispensable source for researchers and graduate students in both complex geometry and mathematical physics." (Werner Kleinert, Zentralblatt MATH, Vol. 1235, 2012)

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Also the Riemann hypothesis for curves is not very elementary for my taste. In fact I do not have an elementary answer to my question even for the case of a curve. ... Browse other questions tagged [ag.algebraic-geometry](#) [algebraic-number-theory](#) [weil-conjectures](#) or ask your own question. Featured on Meta Hot Meta Posts: Allow for removal by ...

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