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The most important global result about plane curves is given by the theorem below. Theorem 2 (The Isoperimetric Inequality) Let α be a simple closed curve with length ℓ and area A. Then A ≤ 1 4π ℓ2, where equality holds if an only if α is a circle. We refer to [2, pp. 51–54] for a proof of the theorem.

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Handout 2: Global properties of plane curves. Definitions. A plane curve α: [a,b] → R2 is closed if α(a) = α(b). It is immersed if α′(t) 6= 0 for any t ∈ [a,b]. Let p ∈ R2 be a point not on the curve α. The winding number wα(p) of an oriented closed curve αaround p is total number of (signed) turns made by α around the point p.

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In the previous chapter we concentrated our attention on local properties of curves, that is, on properties that can be studied looking at the behavior of a curve in the neighborhood of a point. In this chapter, on the contrary, we want to present some results in the global theory of plane curves, that is, results that involve (mainly but not exclusively topological) properties of the support of the curve as a whole.

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Note: the notion of admissible schemes of plane curves, introduced for the proof of the vanishing theorem, allows us to give a recipe for calculating the Hilbert polynomial of ${\overline V}_{n,d}$ (see Sect. 4), in particular the quantum cohomology of the plane.Comment: 21 pages, AMSTeX 2.

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