

A. F. 11. I. 8.
Reut. ms mca 285 sept. 37

ANALYTIC INDEX.

CHAPTER I:

Introductory

Page
1-10

Historical sketch. The scope of the thesis

- | | |
|---------------------------------|---|
| Fundamental Conceptions. | § 1. A theorem of roulettes.
§ 2. Definition of the terms epicycloide and hypocycloide.
§ 3. The cardioide an epicycloide; its polar equation.
§ 4, 5. Some cardioide properties.
§ 6. The cardioide, an epicycloide (second mode of generation). Two other possible definitions.
§ 7. The cardioide as pedal of a circle; a theorem of Quetelet.
§ 8. Analogous modes of generation of the cardioide, to those of the conchoide of Nicomedes and the cissoid of Diocles. |
| Deductions therefrom. | § 9. Relations of the cardioide with the cissoid of Diocles and the conchoide of Nicomedes.
§ 10. The evolute of a cardioide is a cardioide. Two related strophoides. The sextic $r = 2a \left(1 - \frac{\cos 2\theta}{\cos \theta}\right)$.
§ 11. Nine-point circles and MacLaurin Trisectrices. |