

Chapter VIII—Read over § 127 and note result.

Chapter IX—Maxima and Minima. Omit § 136-7, 143-7, 151 to the end of the chapter.

Chapter XII—Tangents and normals. Omit § 173-7, 185 to the end of the chapter except definition of inverse curves. Read over § 195.

Chapter XIII—Asymptotes. § 196-200 explained more simply. Exception when the asymptotes are impossible.

Chapter XIV—Brief explanation of multiple points. Nodes, cusps, conjugate points.

Chapter XV—Brief explanation of envelopes, and the general methods of determining them.

Chapter XVI—Convexity and concavity. Read over the analytical investigation in § 223.

Chapter XVII—Radius of curvature; Omit § 229. Omit § 232-3; 236. Read over § 239. Omit § 241-2. Read over § 243-8, and note conclusions. Omit § 249-54. Read over § 256, and study the approximations.

Chapter XVIII—Brief explanations and easy examples. The Limaçon and Trisectrix. Trisection of an angle. The conchoid § 270.

Chapter XIX—Ronlettes § 271-7. Read over § 278. Geometrical proof of hypocycloid and hypotrochoid when the radius of the inner circle is half that of the outer, § 285.

Chapter XXI—Elimination of Constants and Functions, § 311-12.

Chapter XXI—Change of the Independent Variable, § 320, § 324-5.

Marks, June, 600.

SECTION M.

Integral Calculus.

This subject will be commenced as soon as the process of differentiation has become easy. The elementary formulæ as the reverse of differentiation, and easy variations of them. Substitution, and particularly trigonometrical substitution, $\tan^2 \theta d\theta$. Integration by parts. The various cases of $\sin^m \theta \cos^n \theta d\theta$. Rational fractions.

Marks, March, 100.

Notes on Voluntary Course..... 100.

2ND CLASS.

OBLIGATORY—2,500 MARKS.

MATHEMATICS AND MECHANICS.

Euclid (*Todhunter*)—3rd and 4th Class course.. March, 300

Algebra—4th Class course..... March, 300

Marks.

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