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A GUIDE

TI TEE

MATHEMATICAL STUDENT

IN BEADING BEVIEWING AFT

WORKING FRANGLES

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CHARLES LUTWIDGE DODGSON, M.A.

STUDENT AND NATHENATICAL LECTIBLE OF CHRIST LETRIC. LIFTEL

PART L

PURE MATHEMATICS.

Orford:

JOHN HENRY AND JAMES PARKER.

M DCCC LXIV.

References and the



OXFORD:

BY T. COMBE, M.A., E. PICKABD HALL, AND H. LATHAM, M.A. PRINTERS TO THE UNIVERSITY.

PREFACE.

THE object of the following pages is twofold :---

First, to exhibit, in a compendious form, the whole subject-matter of Pure Mathematics, arranged in the order in which it would usually be advisable that the student should go through it. This Syllabus may be useful as an aid in laying out plans of reading and reviewing, and in shewing the student at a glance where he is on his course, how much is done, and how much remains to be done.

Secondly, to furnish a guide for working examples in the whole subject, so arranged as to secure that the most important subjects shall have the largest share of attention. The Cycle intended for this purpose consists of two columns : one containing the numbers from I to 1702, the other, references to the Syllabus. It is intended that the student using it should turn to the Syllabus for each reference, and work two or three examples in the subject there indicated, (of course passing over all references to subjects he has not read,) and at the end of each day's work mark what point in the Cycle he has reached.

PREFACE.

In the Syllabus, the small figures to the left of the line indicate how often each subject is referred to in the Cycle: so that if the teacher should consider that the examples assigned to any subject are either too many or too few, he can remedy the defect by erasing references in the Cycle, or by inserting additional ones.

The present attempt is, no doubt, deficient and faulty in many respects : and any suggestions from Mathematical teachers for remedying its defects will be gratefully received by the compiler.

Christ Church, Oxford, December, 1864.



A. Arithmetic.

B. Euclid I, II.

30

20

C. Algebra; to Quadratic Equations. 75 D. Euclid III, IV. 23 E. Algebra; from Quadratic Equations to Binomial Theorem.* 45 F. Euclid V, VI. 16 G. Linear Algebraical Geometry. 114 Plane to end of Trigonometry do. (1st time). H. Geometrical Conic Sections. 45 I. Algebra; from Binomial Theorem to Theory of Equations. 100 J. Higher Plane Pure Geometry. 45 K. Plane Algebraical Geometry; from end of Trigonometry 110 to Quadratic Loci (constructed from Geometrical properties). 34 L. Plane Algebraical Geometry; Trigonometry (2nd time). M. Plane Algebraical Geometry; Quadratic Loci (constructed 120 from Equations). N. Differential Calculus (1st time). 135 O. Calculus of Finite Differences (1st time). 19 20 P. Euclid XI, XII, and higher Solid Pure Geometry. 22 Q. Solid Algebraical Geometry; to end of Stereometry. 65 **R.** Solid Algebraical Geometry; from end of Stereometry to Quadratic Superficial Loci (constructed from Geometrical properties). 37 S. Higher Plane Algebraical Geometry. T. Integral Calculus (1st time). 135 U. Solid Algebraical Geometry; Quadratic Superficial Loci 45 (constructed from Equations). 77 V. Higher Algebra. W. Differential Calculus (2nd time). 145 X. Integral Calculus (2nd time). 102 Y. Calculus of Finite Differences (2nd time). 25 35 Z. Calculus of Variations.

* i. e. From Quadratic Equations exclusive to Binomial Theorem inclu-

sive. The same rule of interpretation applies to J, K, &c.

SUBJECTS SUBDIVIDED.

A.

Arithmetic.

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4	
1	1. Addition, Subtraction, Multiplication, and Division; (Simple.)
2	2. Greatest Common Measure and Least Common Multiple.
2	3. Square root and Cube root.
3	4. Vulgar Fractions; addition, subtraction, multiplication, and division.
3	5. Decimal Fractions; addition, subtraction, multiplication, and division.
2	6. Circulating Decimals.
I	7. Reduction from one denomination to another.
I	8. Addition, Subtraction, &c. (Compound).
3	9. Reduction of Fractions (vulgar and decimal) of higher denomina-
	tion to lower; and of lower denomination to fractions (vulgar and decimal) of higher.
I	10. Practice.
2	11. Mensuration, Superficial and Solid.
1	12. Duodecimals.
2	13. Rule of Three ; Direct, Inverse, and Double. Proportional parts.
2	14. Interest, Simple and Compound. Discount. Equation of payments. Stocks.
4	15. Miscellaneous, viz. : Exchange. Profit and Loss. Partnership, &c.
	В.
	Euclid I, II.
	1. Book I.
	2. Book II.
6	3. Deductions from Book I. Problems.
7	4. do. do. Theorems.
3	5. Book II, Problems.
4	6. do. do. Theorems.
-	

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			:							
		С.								
		Algebra; to Quadratic Equations.								
			-		-					
2	1.	Addition,	Subtraction, M	ultiplicat	ion, and Div	ision.				
2	2.	Greatest	Common Measu	re and L	east Common	n Multiple.				
5	3.	Fractions								
3	4.	Involution	n and Evolution							
4	5.	Fractiona	l Indices.							
9	6.	Equations	s, one unknown	quantity	; Simple.					
10	7.	do.	do.		Quadratic					
6	8.	do.	two or more u	inknown	quantities ;	Simple.				
6	9.	do.	do.		•	Quadratic.				
		Problems	leading to Equ	ations,		-				
5	10.		known quantity	-	e.					
6	11.		do.	Quadi						
5	12.	Two or	r more unknown	quantiti	es : Simple.					
6	13.		do.	1	Quadrat	tie.				
2	14.	Theory of	f Equations (1st	time).	Ū					
4		Miscellan	-							
4	.0.									

3

D.

Euclid III, IV.

	1.	Book III.		
	2.	Book IV.		
6	3.	Deductions from	Book III.	Problems.
8	4.	do.	do.	Theorems.
4	5.	do.	Book IV.	Problems.
5	6.	do.	do.	Theorems.
	1			

E.

Algebra; from Quadratic Equations to Binomial Theorem.

- 2 1. Inequalities.
- 6 2. Ratio, Proportion, and Variation.

9 3. Series; Arithmetical, Geometrical, and Harmonical.

- 9 4. Permutations and Combinations.
- 5 5. Binomial Theorem.
- 6 6. Logarithms, use of.
- 4 7. Chances (1st time).
- 4 8. Miscellaneous.

F.

Euclid V, VI.

1. Book V.

2. Book VI.

do.

- 3. Deductions from Book VI. Problems.
- 4.

8 8

5

3

5

do. Theorems.

G.

Linear Algebraical Geometry. Plane do. to

end of Trigonometry (1st time).

Linear Algebraical Geometry.

1. Representation and discussion of lengths absolute.

2. do. do. do. with direction.

3. do. of positions of Points by means of lengths; and discussion of such lengths.

4. Interpretation of Equations; and discussion of Points.

Plane Algebraical Geometry.

5. Representation and discussion of magnitudes absolute.

6. do. do. do. with direction.

- 7. Goniometry: i.e., representation of angles, with direction, by means of ratios; and discussion of such ratios.
- 12 8. Angles; relations between goniometrical ratios of an angle.
- 6 9. do. goniometrical ratios of particular angles.
- 18 10. do. relations between goniometrical ratios of two or more angles.

- 7 | 11. Angles; inverse function.
- 5 12. do. elimination of goniometrical ratios.
 - 13. Theory of Projection (Plane).
- 18 14. Trigonometry; properties of Triangles.
- 6 15. do. do. Quadrilateral Figures inscribed in

Circles.

- 5 16. do. do. regular Polygons.
- 16 17. Heights and distances.
- 8 18. Miscellaneous, viz., Subsidiary angles, &c.

H.

Geometrical Conic Sections.

- 1. Ellipse.
- 2. Hyperbola.
- 3. Parabola.
- 4 4. Problems on Parabola.

5 5. Theorems do.

- 5 6. Problems on Ellipse.
- 8 7. Theorems do.
- 5 8. Problems on Hyperbola.
- 8 9. Theorems do.
- 5 10. Miscellaneous, viz., mechanical methods of tracing curves, &c.

I.

Algebra; from Binomial Theorem to Theory of Equations.

- 6 1. Evolution of Binomial Surds.
- 12 2. Indeterminate Coefficients.
- 6 3. Continued Fractions.
- 10 4. Indeterminate Equations, (1st and 2nd degree).
- 7 5. Partial Fractions.
- 3 6. Scales of Notation.

- 7 | 7. Properties of Numbers.
- 7 8. Vanishing Fractions.
- 6 9. Converging and diverging Series.
- 4 10. Logarithms, construction of.
- 7 | 11. Interest, Discount, and Annuities.
- 6 | 12. Chances (2nd time), and Life-Annuities.
- 11 13. Theory of Equations (2nd time).
- 6 14. Miscellaneous.

J.

Higher Plane Pure Geometry.

4 1. Anharmonic and Harmonic Proportion.

- 5 2. Anharmonic ratio of a Pencil. Harmonic Pencils.
- 5 3. Geometrical Involution.
- 4 4. Poles and Polars in relation to Circles.
- 4 5. Methods of Reciprocation.
- 5 6. Radical Axis and Centres of Similitude.
- 5 7. Principle of Continuity.
- 5 8. Projection.
- 8 9. Miscellaneous.

K.

Plane Algebraical Geometry ; from end of Trigonometry to Quadratic Loci (constructed from Geometrical properties).

- 1. Determination of positions of Points, Lines, and Circles, by means of magnitudes; and discussion of such magnitudes.
- 2. Interpretation and classification of simple Equations.
- 4 3. Interpretation of Pairs of Equations. Representation and discussion of Points.
 - 4. Investigation of Locus of single Simple Equations. Representation of Lines.
- 10 5. Lines ; Problems.
- **3 6** do. Theorems.

	·
7	7. Rectilinear Figures ; Problems.
2	8. do. Theorems.
3	9. Pencils; Problems.
9	10. do. Theorems.
7	11. Representation of Loci of Points fulfilling certain conditions.
	12. Representation of Pairs of Lines. Criterion that Quadratic
	Equation should represent Pair of Lines.
3	13. Pairs of Lines; Problems.
2	14. do. Theorems.
	15. Representation of Circles. Criterion that Quadratic Equation
	should represent Circle.
12	16. Circles ; Problems.
6	17. do. Theorems.
	18. Representation of Parabola. Criterion that Quadratic Equation should represent Parabola.
4	19. Parabola; easy Problems.
4	20. do. Theorems.
	21. Representation of Ellipse. Criterion that Quadratic Equation should represent Ellipse.
6	22. Ellipse ; easy Problems.
8	23. do. Theorems.
	24. Representation of Hyperbola. Criterion that Quadratic Equa-
	tion should represent Hyperbola.
6	25. Hyperbola ; easy Problems.
8	26. do. Theorems.
6	27. Miscellaneous.
	L.
	D.
	Plane Algebraical Geometry;
	Trigonometry (2nd time).
	1. Circular measure. Area of Circle, &c.
4	
U	2. Demoivre's Theorem ; and theorems involving powers of gonio- metrical ratios.
4	3. Summation of series of goniometrical ratios.
4	4. Relations between angle and its goniometrical ratios. Gregorie's
	Series. Euler's and Machin's Series for π .
6	5. Miscellaneous ; viz., resolution of $\sin \theta$ and $\cos \theta$ into factors, &c.
6	Series. Euler's and Machin's Series for π . 5. Miscellaneous ; viz., resolution of sin θ and cos θ into factors, &c.

.

M.

Plane Algebraical Geometry; Quadratic Loci (constructed from Equations).

6 1	1.	Interpretation and cla	sification of Quadratic Equation	08.
		Quadratic Locus ;		
8	2.	General.		Problems.
6	3.	do.		Theorems.
12	4.	do. when B ² -	$4 \text{ ac} \neq 0$, i.e. Central Locus;	Problems.
8	5.	do.	do.	Theorems.
16	6.	Central, when B ² -	4 AC < 0, i. e. Ellipse.	Problems.
10	7.	do.	do.	Theorems.
12	8.	do. when B ² -	4AC > 0, i. e. Hyperbola.	Problems.
8	¥.	du.	do.	Theorems.
16	10.	General, when B ² -	$4 \pm c = 0$, i. e. Non-central	
		Locus,	or Parabola.	Problems.
10	11.	do.	do.	Theorems.
8	12.	Miscellaneous.		
			N.	
	1	Different	tial Calculus (1st time).	
	1	Dimercia	the calculus (1st thic).	
	1	Elements of subject.		
3	1	Differentiation from		
3			ctions connected by addition, d	zc.
9	4.	•	ebraical functions.	
8	5.		pound functions.	
8	6.		ular functions.	
5	7.		ctions of many variables.	
4	1		tion. Leibnitz's Theorem.	
4		Maclaurin's Theorem		
4			nt variable. Taylor's Theorem	
6	11.		ants and functions by differen	ntiation (lst
	1	time).		

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12. Relations between functions and derived functions; viz.

$$\frac{F(x_0+h)-F(x_0)}{f(x_0+h)-f(x_0)}=\frac{F'(x_0+\theta h)}{f'(x_0+\theta h)}, \, \mathrm{dec}$$

- 6 13. Order of Infinitesimals.
- 7 14. Evaluation of quantities of the form $\frac{0}{0}$, &c.
- 8 15. Maxima and minima of explicit functions of one variable.
- 11 16. Geometrical application to end of do.
 - 17. Symbols of direction extended.
- 8 18. Cissoid, Witch, &c.
- 10 19. Tangents &c. of plane curves.
- 5 20. Direction of curvature. Hessian.
- 5 21. Multiple points.
- 6 22. Tracing curves.
- 4 23. Curvature of plane curves.
- 5 24. Evolutes and involutes.
- 6 25. Miscellaneous.

3.

0.

Calculus of Finite Differences (1st time).

- 2 1. Differentiation of functions.
- 2 ?. Integration of functions by indeterminate coefficients.
 - do. product of *n* terms in *A.P.*, and of reciprocal of the same.
- 2 4. Resolution of rational algebraical functions into these 2 forms.
- 2 5. Supplying deficient factors.
- 5 6. Integration of circular, exponential, and other functions.
- 6 7. Summation of Series by general methods.

Ρ.

Euclid XI, XII, and higher Solid Pure Geometry.

- 1. Book XI.
- 2. Book XII.
- ² 3. Deductions from Book XI. Problems.
- 3 4. do. do. Theorems.

5. Deductions from Book XII. Problems. 6. do. do. Theorems. 7. Sections of Cone. 8. Problems on do. 9. Theorems on do. 10. Higher Solid Pure Geometry. 11. Problems on do. 12. Theorems on do. Q. Solid Algebraical Geometry; to end of Stereometry. 1. Representation and discussion of volumes absolute. 2. do. of magnitudes with direction. 3. Theory of Projection in Space. 4. Spherical Trigonometry ; i. e., properties of solid angles. 5. Napier's Analogies. 6. Gauss' Theorems. 7. Solution of spherical Triangles; inscribed Circles; area of triangle and lune, &c. 8. Cagnolis' Theorem. Llhuillier's Theorem. 9. Stereometry; i. e. properties of plane-sided Solids; inscribed Spheres ; volume and diagonal of Parallelepipedon, &c. 10. Miscellaneous. R. Solid Algebraical Geometry; from end of Stereometry to Quadratic Superficial Loci (constructed from Geometrical properties). I. Determination of position, in Space, of Points, Lines, Planes, Spheres, and Cylinders, by means of certain magnitudes; and discussion of such magnitudes. 2. Interpretation and classification of Simple Equations. Pairs of Equations. 3. do. do. 4. do. of sets of 3 Equations.

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4	5. Representation and discussion of Points.
	6. Investigation of Locus of single Simple Equations. Representa-
	tion of Planes.
6	7. Planes. Problems.
6	8. do. Theorems.
3	9. Plane-sided Solids. Problems.
4	10. do. Theorems.
3	11. Representation of Superficial Loci of Points fulfilling certain conditions.
	12. Representation of Pairs of Planes. Criterion that Quadratic
	Equation should represent Pair of Planes.
2	13. Pairs of Planes. Problems.
2	14. do. Theorems.
	15. Investigation of Locus of Pairs of Simple Equations. Repre- sentation of Lines.
6	16. Lines. Problems.
4	17. do. Theorems.
	18. Representation of Spheres. Criterion that Quadratic Equation should represent Sphere.
4	19. Spheres. Problems.
5	20. do. Theorems.
	21. Representation of Cylinders. Criterion that Quadratic Equa- tion should represent Cylinder.
2	22. Cylinders. Easy Problems.
3	23. do. Theorems.
	24. Representation of Cones. Criterion that Quadratic Equation should represent Cones.
2	25. Cones. Easy Problems.
3	26. do. Theorems.
6	27. Miscellaneous.
	S.
	Higher Plane Algebraical Geometry.
2	1. Eccentric angles.
2	2. Similar Conic Sections.
4	3. Contact of Conics. Osculating circle. Centre of curvature, and Evolutes.
5	4. Anharmonic properties of Conics.

.

- 5. Method of reciprocal Polars.
- 6. Involution.
 - 7. Pascal's Theorem.
 - 8. Tangential coordinates.
 - 9. Discussion of Locus of nth degree.
 - 10. Interpretation and classification of Cubic Equations.
- 3 11. Discussion of Cubic Loci.
 - 12. Interpretation and classification of Biquadratic Equations.
- 3 13. Discussion of Biquadratic Loci.
- 4 14. Discussion of Transcendental Loci.
- 6 15. Miscellaneous.

T.

Integral Calculus (1st time).

- 1. Elements of subject.
- 2. Integration from first principles. 4
- 8 3. Definite integration.

do.

- 4. Integration of rational algebraical functions. 12
- 5. do. irrational do. 14
- 6. 8 do. do. do. by rationalization.
 - do. do. by reduction.
- 8. do. exponential and logarithmic functions. 9
- 9. do. circular functions. 10
- 10. Definite integrals and their properties. 15
- 11. Rectification of plane curves. 10
- 12. Quadrature of plane surfaces. 10
- 13. do. surfaces of revolution. 8
- 8 14. Cubature of solids of revolution.
- 15. Miscellaneous. 12

7.

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U.

Solid Algebraical Geometry; Quadratic Superficial Loci (constructed from Equations).

- 1. Interpretation and classification of Single Quadratic Equations. 2. General Quadratic Superficial Locus. Problems. 3 do. Theorems.
 - 3.

3	4.	Reduced Quadratic Locus, $(Px^2 + Qy^2 + Bz^2 + Sx)$	+ T <i>y</i> + V <i>z</i>
		+w=0,) when neither P, Q, nor $n=0$; i.e. Centra	l Quadratic
		Locus. $(Px^2 + Qy^2 + Rz^2 + H = 0).$	Problems.
3	5.	do.	Theorems.
2	6.	Central Quadratic Locus, when $H = 0$, i. e. Cone.	Problems.
2	7.	do.	Theorems.
3	8.	Central Quadratic Locus, when P, Q, R, and H have the	same sign ;
		i. e. Ellipsoid, and Prolate and Oblate Spheroid.	Problems.
3	9.	do.	Theorems.
1	10.	Central Quadratic Locus, when one of them has a di	fferent sign
		from the other three ; i.e. Hyperboloid of one sheet.	Problems.
I	11.	do.	Theorems.
1	12.	Central Quadratic Locus, when two of them have a di	fferent sign
		from the other two; i.e. Hyperboloid of two sheets.	Problems.
1	13.	do.	Theorems.
2	14.	Central Quadratic Locus, when either P, Q, or $R = 0$	0; i.e. the
		Axicentral Locus, or Central Cylinder.	Problems.
2	15.	do.	Theorems.
2	16.	Reduced Quadratic Locus, when one or more of	
		(P, Q, and R,) $= 0$; i. e. Non-central Locus.	Problems. ·
2	17.	do.	Theorems.
2	18.	Non-central Locus, when one of the three, (P, Q, an	$d \mathbf{R}_{,}) = 0;$
		i. e. Paraboloid.	Problems.
2	19.	do.	Theorems.
I	20.	Non-central Locus, when two of the three (P, Q, an	
		i. e. Parabolic Cylinder.	Problems.
I	21.	.do.	Theorems.
2		Miscellaneous, (e. g. Cono-cuneus).	Problems.
2	23.	do.	Theorems.
		V.	

Higher Algebra.

4 1. Theory of equations (3rd time).

3 2. Transformation of equations.

2 3. Equal roots.

3 4. Limits of roots. Separation of roots.

2 5. Commensurable roots.

² 6. Depression of equations.

- 1 | 7. Reciprocal equations.
- 2 8. Binomial do.
- 3 9. Cubic do.
- 3 10. Biquadratic do.
- 2 11. Sturm's Theorem. Fourier's Theorem.
- 2 12. Lagrange's and Newton's methods of approximation.
- 1 13. Horner's method.
- 3 14. Symmetrical functions of roots.
- 1 | 15. Sums of powers of roots.
- 6 16. Determinants.
- 5 17. Elimination.
- 4 18. Expansion of functions in series.
- 5 19. Invariants. Covariants. Emanants. Evectants.
- ² 20. Contravariants.
- 3 21. Hyperdeterminant Calculus. Hermite's Law of Reciprocity.
- ² 22. Canonizants.
- 2 23. Binary Quantics, Quadrics, &c.
- 2 24. Ternary Quantics, Quadrics, &c.
- 3 25. Discriminants, &c.
- ² 26. Commutants.
- 5 27. Miscellaneous.

W.

Differential Calculus (2nd time).

- I. Trigonometrical expressions. Roots of +1 and -1. Imaginary logarithms.
- 2 2. Limits of Maclaurin's and Taylor's Theorems.
- 5 3. Change of equicrescent variable.
- 4 4. Successive differentiation of functions of many independent variables.
- 2 5. Euler's Theorem of homogeneous functions.
- 3 6. Successive differentiation of implicit functions.
- 2 7. Bernoulli's Numbers.
- 2 8. Lagrange's Theorem.
- 2 9. Laplace's Theorem.

1	10.	Extension of Macla	aurin's Theo	rem.			
10		Elimination of con			l time).		
5				•	nto their equivalents		
-		in terms of othe		-	•		
	13.	Expansion of fund	ctions of one	e variable.	Acccurate proofs of		
		Maclaurin's and			-		
4	14. Expansion of functions of two or more variables.						
		Maxima and minin	na				
6	15.	Of implicit func	tions of 2 in	dependent v	ariables.		
7	16.	Of explicit d	lo.	do.	do.		
5	17.	Of functions of	3 or more	do.	do.		
5	18.	do.	do. not	independent	do.		
. 5	19.	Properties of Curv	ves of the nt	h degree.			
3	20.	Contact of curves	(plane).				
6		Envelopes do.					
2		Theory of reciproc	ation.				
3		Caustics.					
10		Curved surfaces, t					
4		Singular points of		aces.			
8		Curves in space, t	-				
3		Geodesic lines, &c		uiuba linaa	Dulad surfaces		
2		Curved surfaces g	enerated by	do.	Ruled surfaces. Conical do.		
2	29. 30 .	do. do.		do. do.			
2	30. 31.	do. do.		do. do.	Cylindrical do. Developable do.		
2	32.	do.		do. do.	Skew do.		
2	33.	do.		do,	Conoidal do.		
- 2	34.	do.		by circles.	Surfaces of revolu-		
-	04.	u0.		sy choices	tion.		
2	35.	do.		do.	Tubular.do.		
1	36.	Curves in space.	Curvature-	angle of cont	ingence.		
I	37.	do.	Torsion.				
· .	3 8.	do.	The polar s	surface.			
I	3 9.	do.	The oscula	ting sphere.			
I	40.	do.	Complex fl	exure.			
I	41.	do.		ting surface.			
1	42.	do.		ing surface a			
I	1	Curved surfaces.	Curvature.	Euler's Th	eorem.		
I	44.	do.	Umbilics.				
I	45.	do.	Lines of cu				
1	46.	do.	Dupin's Th				
I	47.	do.	Osculating	surfaces.			

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48. Calculus of operations, Elements of.

- 49. Laws of commutation, distribution, and iteration.
- 50. Law of total differentiation.
- 6 51. Miscellaneous.

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Integral Calculus (2nd time).

- 3 1. Successive integration.
- 3 2. Rectification of non-plane curves.
- 3. Determination of the equation to a curve by means of a relation between the length and the coordinates to any point on it.
- 3 4. Involutes of plane curves.
- 3 5. Quadrature of curved surfaces.
- 3 6. Cubature of solids bounded by any curved surface.
- 2 7. Properties of multiple integrals.
- **8. Transformation of multiple integrals.**
- 9. Curvilinear co-ordinates. Gauss' System. Lamé's System and Jacobi's modification.
- 2 10. Variation of definite integrals due to variation of parameters involved in element-function.
- 2 11. Variation of definite integrals due to variation of parameters involved in element-function and in the limits.
 - Differential equations.
 - 12. General principles.

First order.

- 4 13. Exact total differential equations.
- 4 | 14. Homogeneous equations of 2 variables.
- 4 15. The first linear differential equation.
- 4 16. Partial differential equations of 1st degree.
- 2 17. Integrating factors of differential equations.
- 2 18. Singular solutions of do.
- 4 19. Differential equations of higher degrees.
- 3 20. Particular processes.

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Differential equations (continued).

Higher orders ;

	21.	First degree ; general properties.					
3	22.	do. linear differential equations.					
3 3	23.						
	20. 24.	do. do. with variable coefficients.					
3	25.						
3	20. 26.	Higher degrees ; total differential equations. do. partial do.					
3		I I I I I I I I I I I I I I I I I I I					
4		Geometrical Problems involving diff. equations. 1st order.					
4	28.	do. do. 2nd do.					
_		Simultaneous differential equations. General principles.					
3	30.	do. Linear. 1st order.					
2	31.	do. do. Higher orders.					
		Integration of differential equations by series.					
2	32.	Application of Taylor's and Maclaurin's Theorems.					
2	33.	Method of undetermined coefficients.					
2	34.	Solution of Riccati's Equation.					
4	35.	Application of Integral Calculus to Theory of Probabilities.					
5	36.	Elliptic Integrals.					
6	37.	Miscellaneous.					
		Y. Calculus of Finite Differences (2nd time).					
2	1	Solution of constions of differences late order					
2	1. 2.	Solution of equations of differences. 1st order.					
		do do 9nd order					
		do. do. 2nd order. do do ath order					
	3.	do. do. nth order.					
2	3. 4.	do. do. <i>nth</i> order. do. mixed differences.					
2 3	3. 4. 5.	do. do. nth order. do. mixed differences. Summation of Series ; by particular assumptions.					
2 3 2	3. 4. 5. 6.	do. do. nth order. do. mixed differences. Summation of Series ; by particular assumptions. do. by differentiation.					
2 3 2 2	3. 4. 5. 6. 7.	do. do. nth order. do. mixed differences. Summation of Series ; by particular assumptions. do. by differentiation. do. of recurring Series.					
2 3 2 2 3	3. 4. 5. 6. 7. 8.	do. do. nth order. do. mixed differences. Summation of Series ; by particular assumptions. do. by differentiation. do. of recurring Series. Interpolation of Series.					
2 3 2 2 3 2	3. 4. 5. 6. 7. 8. 9.	do. do. nth order. do. mixed differences. Summation of Series ; by particular assumptions. do. by differentiation. do. of recurring Series. Interpolation of Series. Generating functions.					
2 3 2 2 3	3. 4. 5. 6. 7. 8. 9.	do. do. nth order. do. mixed differences. Summation of Series ; by particular assumptions. do. by differentiation. do. of recurring Series. Interpolation of Series. Generating functions. Miscellaneous.					
2 3 2 2 3 2	3. 4. 5. 6. 7. 8. 9.	do. do. nth order. do. mixed differences. Summation of Series ; by particular assumptions. do. by differentiation. do. of recurring Series. Interpolation of Series. Generating functions.					

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Calculus of Variations.

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		Company and the second s
		General principles.
2	2.	Variation of $\int_0^1 F(x, dx, d^2x, y, dy, d^2y,)$.
2	3.	Variation of $\int_0^1 \mathbf{F}(x, y, y', y'',)$.
2	4.	J_0
2	5.	do. $\int_0^1 \mathbf{F}(x, y, y', y'', \dots z, z', z'', \dots).$
I	6.	Variation of a variation.
I	7.	do. of a product of differentials.
I	8.	do. of a definite double integral due to the variations of
		the limits.
		Maxima and minima.
	9.	Critical values of definite integrals, whose element-functions in-
		volve variables and their differentials; general principles.
3	10.	do. relative max. and min.
2	11.	do. absolute do.
3	12.	Geodesic lines; equations to.
2	13.	do. properties of.
	14.	Critical values of definite integrals, whose element-functions in-
		volve derived functions; general principles.
3	15.	do. particular cases.
	16.	Discriminating conditions; general principles.
	17.	do. requisite data.
	18.	do. proof that $\delta H u dx$ is an exact
		differential : its integral, &c.
2	19.	do. particular cases.
	2 0.	Critical values of a double definite integral; necessary criteria.
3	21.	do. application of.
6	22.	Miscellaneous.

CYCLE

FOR WORKING EXAMPLES.

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	1	37 38	W 11	75	G 14	113	K 17
		38	R 20	75 76	11	114	V 25
I	M 6	39	X 27	77	I 5	115	X 6
2	W 16	40		77 78	J 6	116	R 10
3	L 3	41	Y 1	70	T 10	117	BB
	v i	42	M 4	79 80	1 10	118	W 12
	T 6		T 11	81	M 2	110	S 4
5 6	G 10	43	$\mathbf{\tilde{Z}}$ 10	82	A 6	119	N T
	17	44	V 23	80	W 14		Y 10
7 8	Н 7	45		83		121	C 3
	X 13	46		84		122	T 13
9		47	19	85 86	7	123	
10	K 16	48	G 15	8 0	N 5	124	M 10
11	10	49	J 1	87 88	24	125	N 15
. 12	N 16	50	W 29	88	V 12	126	05
13	10	51	U 8	89	D 3	127	A 9
14	C 12	52	Z 2	90	X 37	128	<u>U</u> 6
15 16	M 11	53	T 4	91	U 3	129	X 14
16	W 1	54	M 7	92	C 6	130	I 2
17 18	07	55 56	06	93	3	131	3
	J 8	56	X 1	94	Т З	132	W 27
19	R 7	57	Q 4	95	M 6	133	Q 9
20		57 58	W 19	95 96	F 3	134	· F 4
21	T 5 I 7	59 60	E 3	97	W 51	135	T 15
22		60		<u> </u>	R 16	136	G 10
23	2	61	E 2	99	Z 10	137	18
24	U 2	62	K 26	100		138	V 4
25 26	X 32	63 64	5	101	I 10	139	Z 11
26	D 4	64	N 4	102	1	140	
27	W 4	65 66	11	103	G 8	141	M 1
27 28	A 1	66	V 17	104	X 36	142	E 7
29	M 10	67	H 10	105	Н 9	143	W 23
30	V 16	67 68	M 5	100	L 1	144	K 16
31	Т9	69	Т 8	107	W 8	145	28
32	L 5	70	C 11	108	I 12	146	X 25
33	B 4	71	W 24	109	M 8	147	C 9
34	N 25	72	R 5	110		148	R 8
35	K 27	73	P 4	III	T 14 J 4	149	T 3
36	C 8	73	X 19	112	K 23	150	Ĥ Ő
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151	S 15	201	R 27	251	P 12	301	X 35	
152	N 13	202	V 20	252	T 8	302	S 2	
153	V 27	203	X 16	253	M 8	303	C 15	
154	W 43	204	G 14	254	I 2	304	W 15	
155	M 9	205	1	255	7	305	U 15	
156	J S	206	T 4	256	W 21	306	E 3	
157	X 18	207	¥ 5	257	K 26	307	5	
158	U 9	208	M 6	258	16	308	T 10	
159	I 13	209	W 17	259	H 8	309	G 17	
160	1 10	210	I 14	260		310	5	
161	T 12	211	U 14	261	N 7	311	9	
162	G 17	212	H 7	262	19	312	N 4	
163	W 26	213	Z 15	263	R 23	313	23	
164	S 6	214	S 11	264	X 15	314	V 18	
165	N 18	215	T 11	265	V 16	315	M 6	
166	V 21	216	C 13	266	S 3	316	X 2	
167	D 6	217	W 25	267	W 18	317	J 2	
168	M 12	218	M 7	268	J 5	318	R 7	
169	T 5	219	V 19	269	M 3	319	W 32	
170	K 11	220		270	T 15	320		
171	25	221	X 9	271	Ĉ 6	321	0 1	
172	C 7	222	K 5	272	G 4	322	T 5	
173	W 28	223	27	273	8	323	K 23	
174	L 2	224	N 9	274	14	324	6	
175	F 3	225	22	275	Z 5	325	D 5	
176	X 4	226	E 4	276	F 4	326	N 21	
177	R 13	227	6	277	X 23	327	5	
178	Z 22	228	Q 7	278	U 19	328	M 4	
179	V 14	229	T 7	279	Y 2	329	C 8	
180	1000	230	J 7	280		330	X 24	
181	M 4	231	R 22	281	W 6	331	L 5	
182	T 9	232	W 16	282	M 5	332	A 13	
183	H 4	233	I 11	283	B 4	333	W S	
184	.S 1	234	9	284	T 4	334	G 10	
185	W 2	235	X 28	285	Q 10	335	11	
186	I 4	236	M 10	286	V 6	336	T 12	
187	8	237	D 4	287	N 14	337	I 4	
188	U 4	238	T 6	288	6	338	6	
189	X 30	239	V 5	289	R 11	339	P 6	
190	J 9	240		290	Z 12	340		
191	T 10	241	G 10	291	07	341	S 15	
192	A 15	242	16	292	K 3	342	N 16	
193	M 11	243	W 24	293	13	343	M 10	
194	C 10	244	L 4	294	W 30	344	V 9	
195	W 11	245	A 4	295	I 5	345	W 41	
196	K 10	246		296	13	346	R 17	
197	22	247	U 5	297	T 14	347	T 4	
198	B 6	248	X 3	298	M 2	348	Q 4	
199	N 16	249	C 5	299	H 9	349	X 5	
200		250	4	300	1000	350	I 1	
		-		100 Mar				

351	I 12	401 L 3	451 Q 7	501 K 22
	U 18			
352				
353	N 25	403 V 2	453 N 2	503 W 14
354	H 5	404 X 27	454 19	504 U 22
355				
356	W 7	406 11	456 I 13	506 1
357	C 7	407 H 10	457 T 6	507 T 2
33/				
358		408 T 15		
359	17	409 M 12	459 W 40	509 B 4
360		410 C 9	460	510 N 4
300	m 0		400 V 10	
361	T 9	411 W 24	461 Y 10	
362	J 8	412 R 19	462 S 14	512 G 16
363	X 13	413 A 7	463 X 11	513 17
303				
364	A 14			
265	Q 1	415 G 17	465 N 10	515 W 37
366	V 17	416 8	466 13	516 I 4
500				
367	W 11	417 X 17	467 M 4	
368	M 11	418 I 8	468 J 6	518 Q 4
<u>3</u> 69	Т З	419 11	469 T 7	519 T 9
	R 20			J J J
370		420		5 ²⁰ D 0
371	Y 8	421 D 3	471 O 6	521 P 3
372	N 15	422 T 10	472 W 9	522 S 13
	G 18		473 K 26	523 X 22
373				
3 74	14	424 V 27		
3 75	X 26	425 W 36	475 X 20	525 M 6
376	C 11	426 U 10	476 L 2	526 N 6
077	S 4	427 P 11		
377				J - / 1
378	W 26	428 X 31		
379	E 8	429 S 5	479 M 3	529 W 21
380		430 T 5	480	530 A 5
381	T 11		481 W 16	
301			401 11 10	55
382	M 7	432 6	482 D 4	
383	B 3	433 K 19	483 S 6	533 T 10
384	N 20		484 N 24	
304				
385	K 10	435 W 12	485 C 7	
380	5	436 J 6	486 X 7	536 J 3
387	V 1	437 M 1	487 G 14	537 X 1
388	W 51		488 H 9	
300				
389	U 2	439 R 8	489 W 20	539 W 11
390	I 2	440	490 Q 10	540
391	3	441 E 2	491 I 14	541 C 8
				JT
392				
393	R 16	443 T 8	493 M 5	543 U 12
394	T 13	444 <u>B</u> 6	494 A 2	544 T 5
	Ĉ 12			
395				
396	F 3	446 G 10	496 R 27	546 2
397	M 8	447 12	497 X 14	547 G 10
398	Z 21	448 15	498 V 3	548 1
370				
399	J 9			
400	I	450 X 19	500	550 V 16
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			5	22			
551	Z 22	601	C 6	651	S S	701	A 9
552	M 10	602	US	652	X 24	702	M 2
553	H 4	603	H 8	653	J 9	703	C 12
554	W 17	604	W 1	654	G 17	704	3
555	R 10	605	M 4	655	10	705	W 11
556	T 15	606	T 13	656	5	706	K 25
557	Y 9	607	I 12	657	T 5	707	H 7
558	K 5	608	S 15	658	I 1	708	T 6
559	16	609	X 28	659	8	709	L 4 V 21
560	V OF	610	D 3	660	W 51	710	N 6
561	X 25	611	W 18	661	ALL	711	20
562	C 5	612	V 25 R 7	662 663	M 10 N 25	712	R 20
563	11 N 5	613	R 7 N 23	664	R 16	713	X 10
564	M 7	614 615	J 7	665	V 4	714 715	I 2
565 566	W 15	616	T 4	666	T 12	716	11
567	I 10	617	M 12	667	U 9	717	M 7
568	9	618	C 7	668	A 3	718	W 16
569	U 8	619	Z 19	669	W 3	719	T 11
570	T 11	620	2 10	670	K 26	720	
571	V 19	621	G 18	671	16	721	E S
572	F 3	622	9	672	X 35	722	2
573	L 1	623	W 5	673	C 15	723	G 16
574	X 16	624	K 14	674	B 5	724	8
575	07	625	20	67.5	M 8	725	N 13
576	W 24	626	I 13	676	T 9	726	S 11
577	M 11	627	X 33	677	Q 9	727	Z 10
577 578	J 4	628	U 16	678	I 4	728	C 13
579	T 3	629	T 8	679	W 22	729	W 23
580		630	Y 4	680		730	M 6
581	G 8	631	M 6	681	G 11	731	V 14
582	14	032	N 18	682	14	732	T 4
583	E 6	033	V 22	683	D 4	733	K 23
584	1	034	W 34	684	N 16	734	× 00
585	P 9	035	L 5	685	4	735	X 23 O 6
586	N 3	030	F 4	686	S 4	736	0 6 U 17
587	15 P 0	637	X 15	687 688	X 6 V 17	737	W 19
588	R 9 A 15	638	R 26 O 2	689	M 5	738	J 8
589	A 15 W 26	639	0 2	690	T 15	739	
590		640	T 10	601	J 2	740	G 10
591	M 9 T 14	641 642	M 1	691 692	R 25	741	17
592	V 11	642 643	E 4	693	W 27	742 743	15
593 594	B 3	644	5	694	Y 10	743	N 14
595	X 37	645	W 25	695	Ū 4	745	5
595	K 10	646	K 17	696	N 11	746	IS
597	7	647	11	697	21	747	14
598	N 19	648	N 8	698	P 12	748	T 7
599	7	649	Z 4	699	X 36	749	M 4
600		650	C 9	700		750	F 3

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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	751 ·	X 13	801 W 8	851 V 26	901 C 11
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			802 Y 5	852 N 18	902 T 4
754W 2480410854B 6 904 I 12755IO805X 84855Z 7905W 29756IO806I 5856R 19906K 55757A 118076857W 1590719758S 5808N 16856R 19906K 55757A 118076857W 1590719758S 5808N 16858C 8908X 30759T 10809M 3859T 9909V 20760810J 6860910M 7761E 7811O 7861K 11911N 10762Q 7812T 1886226912Z 14764N 19814V 12864G 14914D 4765M 10815W 21865X 37916W 14764N 19814Y 27870F 4920H 7770J 5820870F 4920H 7771X 32821N 22871W 4921H 7772R 17822Z 3875T 10922M 11774R 17822Z 3875T 10925B 3776I 2826T 8876H 10924K 23775G 14825M	7.53	V 18	803 G 18	853 M 6	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	754	W 24	804 10		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			805 X 34	855 7 7	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	755				
758S5808N16 858 C8 908 X 300 759 T10 809 M3 859 T9 909 V 200 760 E7 810 J6 860 910M7 761 E7 811 O7 8611 K11 911 N10 762 Q7 812 T13 862 266 912 Z15 763 H5 813 S14 863 P8 913 O4 764 N19 814 V12 864 G14D4 765 C10 816 U5 866 X 377 916 W14 767 W 83 817 C 6867 I4 917 Y10 768 K3 819 X 27 869 M5 919 U6 770 J5 820 N 870 F4 920 H7 774 R17 822 Z 877 N4 921 H7 772 R246 874 V5 924 C10 775 G14 825 M8 875 T10 926 W24 777 W12 827 D <td< td=""><td>/30</td><td>A 11</td><td></td><td></td><td></td></td<>	/30	A 11			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	757				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	750				
761E7 811 O7 861 K11 911 N10 762 Q7 812 T13 862 26 912 Z15 763 H5 813 S14 864 G14914D4 764 N19 814 V12 864 G14914D4 765 M10 815 W21 866 S9915R7 766 C10 816 U5 866 X 37 916W14 77 W 83 817 C6 867 I4917Y10 768 K3 818 4 868 9918T11 769 13 819 X 27 869 M5919U6 770 J5 820 870F49207 771 RR22Z3872A10924X14 774 R17 822 Z3 872 A10924X14 774 R17 822 Z3 872 A10924X14 774 R12 827 D5 877 H6927K823 776 12 826 T8876	759	T 10	809 M 3		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	700				
762 Q 7 812 T $T13$ 862 266 912 Z Z $I5$ 763 H 5 813 S 14 863 P 8 913 O 4 764 N 19 814 V 12 864 G 14 914 D 4 765 M 10 815 W 21 865 9 915 R 7 766 C 10 816 U 5 866 X 37 916 W 14 767 W 33 817 C 6 867 I 4 917 Y 10 768 K 3 818 4 868 9 918 T 11 769 13 819 X 27 869 M 5 919 U 6 770 J 5 820 877 K 4 921 H 7 772 R 17 822 R R R 10 922 X M 773 T 822 R R R R R 923 M 11 774 V 27 824 6 874 V 5 924 C 10 777 W 12 827 D 5 877 H 6 927 K 823 776 R <td>761</td> <td></td> <td></td> <td></td> <td></td>	761				
764N19814V12864G14914D4765C10816U58659915R7766C10816U5866X37916W14767W33817C6867I4917Y10768K381848689918T1176913819X27869M5919U6770J5820871W4921H7771X822Z3872A10922X14773T5823E4873U20923M11774V278246874V5924C10775G14825M8875T10925B377612826T8876Q10920T6780M11829W6879M10929T6781N24831X5881Y893117782I7832K16882X19932N2578313833225 <t< td=""><td>762</td><td></td><td>812 T 13</td><td>862 26</td><td></td></t<>	762		812 T 13	862 26	
764N19814V12864G14914D4765C10816U58659915R7766C10816U5866X37916W14767W33817C6867I4917Y10768K381848689918T1176913819X27869M5919U6770J5820871W4921H7771X822Z3872A10922X14773T5823E4873U20923M11774V278246874V5924C10775G14825M8875T10925B377612826T8876Q10920T6780M11829W6879M10929T6781N24831X5881Y893117782I7832K16882X19932N2578313833225 <t< td=""><td>763</td><td></td><td></td><td>863 P 8</td><td></td></t<>	763			863 P 8	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	764	N 19	814 V 12	864 G 14	
766C 10816U 5866X 87916W 14 767 W 33817C 6867I 4917Y 10 768 K 381848689918T 11 769 13819X 27869M 5919U 6 770 J 5820870F 4920771X 32821N 22871W 4921H 7 772 R 17822Z 3872A 10922X 14 773 T 5823E 4873U 20923M 11 774 W 278246874V 5924C 10 775 G 14825M 8875T 10925B 3 776 12826T 8876Q 10926W 24 777 W 12827D 5877H 6927K 23 778 D 6828R 23878W 11928A 6 779 M 11829W 6879M 10922T 6 780 830I 2880930G 44 781 N 24831X 5881Y 893117 782 I 7832K 16882X 19932N 25 783 1383325883R 13933V 23 784 U 2834H 10884N 9934F 3 785		M 10	815 W 21	865 9	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	766	C 10	816 U 5	866 X 37	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	767				
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772R 17 822 Z 3 872 A 10 922 X 14 773 T 5 823 E 4 873 U 20 923 M 11 774 V 27 824 6 874 V 5 924 C 10 775 G 14 825 M 8 875 T 10 925 B 3 776 12 826 T 8 876 Q 10 926 W 24 777 W 12 827 D 5 877 H 6 927 K 223 778 D 6 828 R 23 878 W 11 924 A 6 779 M 11 829 W 6 879 M 10 929 T 6 780 830I 2 880 930G 4 781 N 24 831 X 5 881 Y 8 931 17 782 I 7 832 K 16 882 X 19 932 N 223 784 U 2 834 H 10 884 N 9 934 F 3 785 T 3 835 T 15 885 4 935 X 222 786 B 4 836 G 888 K 16 8					920
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
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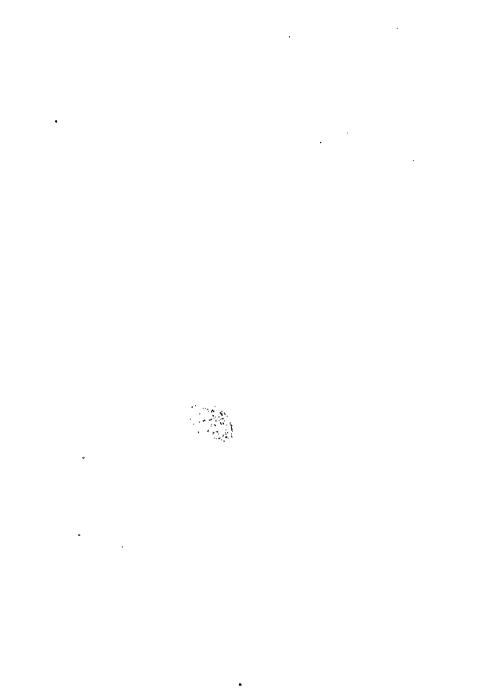
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1557	11	1595 R 9	1633 1		11
1558	W 11	1596 X 30	1634 T 3	1672 A	5
1559	Т 10	1597 C 15	1035 J 7	1673 Y	7
1560		1598 M 1	1636 R 27	1674 T]	10
1 56 1	F 4	1599 T 5	1637 B 5	1675 R I	19
1 562	A 12	1600 K 5	1638 Z 22	1676 I	9
1563	C 11	1601 23	1639 Q 10	1677	2
1 564	X 2	1602 N 22	1640 X 33	1678 Z	6
1 565	M 3	1603 I 2	1641 C 9		21
1566	J 3	1604 13	1642 M 10		22
1567	U 11	1605 W 24	1643 W 18	1681 O	4
1,568	W 33	1606 G 18	1644 U 17		10
1569	R 25	1607 10	1645 D 5	1683 M	9
1570	H 6	1608 Y 9	1646 N 7	1684 H	8
1571	I 5	1609 J 5	1647 18		20
1572	4	1610 L 4	1648 L 2		15
1573	T 11	1611 Z 8	1649 E 5		23
1 574	K 16	1612 V 26	1650 4	1688 W	3
I 575	11	1613 U 16	1651 S 14	1689 M	8
1576	N 4	1614 T 4	1652 T 14	1690 J	2
1577	19	1615 M 6	1653 R 17		14
1578	C 8	1616 A 11	1654 I 14		20
I579	X 20	1617 W 44	1655 8		26
1580		1618 R 8	1656 W 26	1694 <u>C</u>	7
1501	G 14	1619 N 15	1657 M 7		15
1582	8	1620	1658 T 13	1696 G	9
1583	02	1621 C 6	1659 V 18		12
1584	Z 3	1622 4	1660		12
1585	V 2	1623 H 5	1661 K 3	1699 E	8
1 586	W 17	1624 I 3	1662 8		12
1587	M 2	1625 12	1663 C 13	1701 I	4
1 588	H 9	1626 T 9	1664 P 8	1702]	11

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