

the
Messenger
of
Mathematics

24

CHH

P.294.

THE

MESSENGER OF MATHEMATICS.

EDITED BY

J. W. L. GLAISHER, Sc.D., F.R.S.,
FELLOW OF TRINITY COLLEGE, CAMBRIDGE.

16.

VOL. XXII.

[MAY 1892—APRIL 1893.]



MACMILLAN AND CO.

London and Cambridge.

1893.

CAMBRIDGE:

PRINTED BY METCALFE AND CO LIMITED, TRINITY STREET.

CONTENTS.

ARITHMETIC AND ALGEBRA.

	PAGE
On an inequality. By H. W. SEGAR - - - - -	47
Note on the numerator of a harmonical progression. By G. OSBORN - - - - -	51
Numerical factors: a theorem. By Rev. J. G. BIRCH - - - - -	52
Sur la loi des grands nombres de Poisson. Par Prof. Paul MANSION - - - - -	56
The deduction of certain determinants from others of indeterminate form. By H. W. SEGAR - - - - -	57
On two cubic equations. By Prof. CAYLEY - - - - -	69
Note on a problem in the theory of numbers. By W. W. ROUSE BALL - - - - -	82
Note on a nine schoolgirls problem. By Prof. SYLVESTER - - - - -	159
Correction to the above paper - - - - -	192
On a series of points given by recurring series. By H. W. SEGAR - - - - -	161
Limits of the expression $\frac{x^p - y^p}{x^q - y^q}$. By S. R. KNIGHT - - - - -	165
On the roots of certain continuants. By H. W. SEGAR - - - - -	171
On the development of $(1 + n^2x)^{\frac{1}{n}}$. By Prof. CAYLEY - - - - -	186
Note on linear substitutions. By W. BURNSIDE - - - - -	190

GEOMETRY.

Note on the orthotomic curve of a system of lines in a plane. By Prof. CAYLEY - - - - -	45
Polygons of minimum perimeter circumscribed to an ellipse. By Prof. G. B. MATHEWS - - - - -	68
Note on the theory of functions. By H. W. SEGAR - - - - -	181
On a case of the involution $AF + BG + CH = 0$, where A, B, C, F, G, H are ternary quadrics. By Prof. CAYLEY - - - - -	182

THEORY ON ELLIPTIC FUNCTIONS.

On a class of functions derivable from the complete elliptic integrals, and connected with Legendre's functions. By J. KLEIBER	1
Note on Mr. Kleiber's functions K_i and G_i . By J. W. L. GLAISHER	71
Note on pseudo-elliptic integrals. By W. BURNSIDE	83
On the division of the periods of elliptic functions by 9. By W. BURNSIDE	89
On certain series and definite integrals. By J. W. L. GLAISHER	97
Development in powers of $k'^2 - k^2$. By J. W. L. GLAISHER	109

