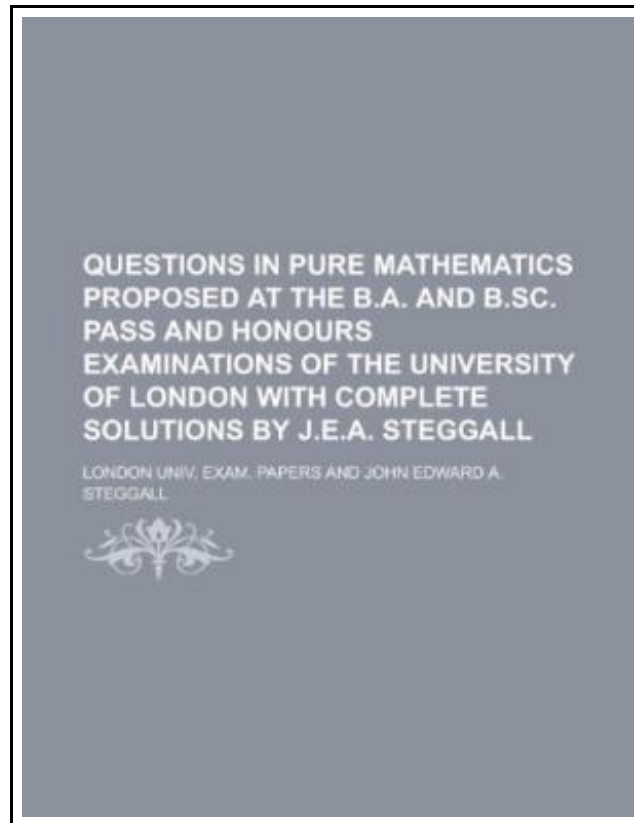# Questions in Pure Mathematics Proposed at the B.A. and B.SC. Pass and Honours Examinations of the University of London with Complete Solutions by J.E.A. Steggall (Paperback)

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Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1882 edition. Excerpt: .is CA and height equal to CS; the base will be equal to GB. 10. If any right line intersect an hyperbola, prove that the portions intercepted between the curve and its asymptotes; are equal. See Besant s Conic Sections, 116; Drew s Conic Sections, 58. Tuesday, October 26, 1880. r, . f Dr. John Hopkinson, M.A., E.R.S. Examiners, Eey Prof ToTOSEND mjl, pjUi Morning, 10 to 1. DIFFERENTIAL AND INTEGRAL CALCULUS. 1. Explain what is meant by the differential coefficient of any expression, and find the differential coefficients of--x. log (tan a;), .-, and log(vx+a + /x+b). See Williamson s Differential Calculus, 7; Todhunter s Differential Calculus, 24. The differential coefficients required may be easily worked from first principles; but the ordinary method is the shortest, thus: --d los tan x 1 d tan x sec2 1 /V)-n(n-l). (M-r+l)(l+) - , .-. f(0)=n(n-l). (n-r+1). Hence This series terminates at the (n+l)th term, if n is a positive integer; otherwise it has an infinite number of terms. For the second example see Williamson s Differential Calculus, 60. 4. Explain the method for finding the maxima and minima values of a function of x, and show how they are distinguished from each other. See Todhunter s Differential Calculus, 211; Williamson s Differential Calculus, 138. 5. Find the maxima and minima values of------, and J ar+a?.a This may also be shown by examining the sign of the second differential coefficient when x=a(--1+ s/ 2)....

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