



## Plane Trigonometry for the Use of Students Preparing for Examinations; Containing the More Advanced Propositions, Solution of Problems and a Complete Summary of Formulae, Bookwork, Etc., Together with Recent Examination Papers for the

By A Dawson Clarke

Rarebooksclub.com, United States, 2012. 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 download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1885 edition. Excerpt: .1. Examine the rule for transferring an angle expressed in French measure to the English scale. Express the angle of an equilateral and equiangular pentagon in the French scale, and thence determine its measure in the English scale. 2. Define as ratios the sine and tangent of an angle, and show that any proper fraction, positive or negative, may be the sine of an angle, and any number, positive or negative, may be the tangent of an angle. Prove  $\cos(90-A) = \sin A = -\sin(-A)$ . 3. If  $A + B$  be less than a right angle, prove  $-\sin(A + B) = \sin A \cos B + \cos A \sin B$ . Deduce directly from this formula  $\cos 2A = \cos^2 A - \sin^2 A$ . Express  $-\cos(3A + 2B) + \cos(5A - 4)$  as the product of two cosines. 4. Find the sine and cosine of  $30^\circ$ ...



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