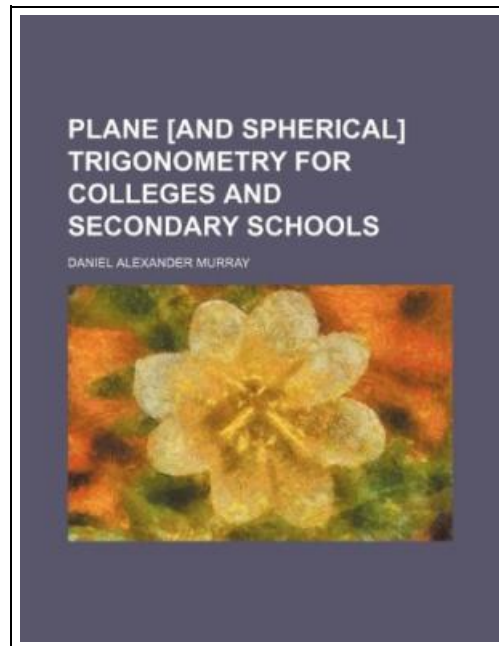


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1908 Excerpt: .4. Solve the equation $\sin 60 + \sin 0 = \sin 30$: $2\sin 30 \cos 29 = \sin 30$ -. $\sin 30(2\cos 20 - 1) = 0$ -. (a) $\sin 30 = 0$, (6) $2\cos 20 - 1 = 0$. From (a), $30 = 0, 180$, etc.; the general value of 30 is $n\pi$ (n being any integer). 90. EXAMPLES. 155 Find solutions of these equations: 5. $3(\sec 20 + \cot 20) = 13$. 6. $\cot 0 - \tan 0 = 2$. 7. $\sec x + \tan x = 2$. 8. $\sec 2x + \tan x = 7$. 9. $\sec 2x - \tan x = 3$. 10. $\cos 0 - \cos 70 = \sin 40$. 11. $2\sin x + 5\cos x = 2$. 12. $\sin 20 + \sin 40 = \sqrt{2} \cos 0$. 13. $4 \sin 0 \cos 20 = 1$. 14. $\tan M - 4 \tan M + 3 = 0$. 15. $3(\tan 20 + \cot 20) = 10$. 16. $\cos x - \sin -1x = \cos -1 V3$. N.B. Questions and exercises suitable for practice and review on the subject-matter of Chapter XI. will be found at pages 197-199. CHAPTER XII. MISCELLANEOUS THEOREMS AND EXERCISES. 91. Chapters II.-VIII. were devoted to the oldest and the simplest application of trigonometry; namely, the measurement of triangles. Angles and the trigonometric functions connected with angles were more fully discussed in Chapters IX.-XI. This chapter does not introduce any new principles. Most of its articles may be regarded as exercises on the relations shown in Chapters II.-VIII., and more especially on the properties announced in Arts. 44, 50-52. The articles just mentioned should be reviewed. Some of the results in the exercises...



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