KEY TO THE EXERCISES IN THE ELEMENTS OF PLANE AND SPHERICAL TRIGONOMETRY

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Key to the exercises in the elements of plane and spherical trigonometry by William Rossiter

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WILLIAM ROSSITER

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PLANE AND SPHERICAL TRIGONOMETRY.

BY

WILLIAM ROSSITER, F.R.G.S., F.R.A.S.,

HEAD MASTER OF SOUTH LONDON SCHOOL; MEMBER OF COUNCIL OF WORKING MEN'S COLLEGE; AUTHOR OF "FIRST BOOK OF BOTANY" AND "FIRST BOOK OF ALGEBRA;" EDITOR OF AN EDITION OF "EUCLID'S ELEMENTS," ETC., ETC.

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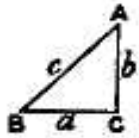
CHAPTER II. (Page 40.)



(1.) $a^2 = c^2 - b^2 = 196 - 49,$
$= 147;$
$\therefore a = 12{\cdot}1.$

Also, $B : C :: \frac{1}{2} : 1.$

But $\frac{1}{2} = \textit{sine}$ of $30°$; $\therefore B = 30°.$

And $A = 180° - 120° = 60°.$

Therefore $A = 60°$, $B = 30°$, and $C = 90°$.

Also, $a = 12{\cdot}1$, $b = 7$, $c = 14$,

and the triangle is completely known.

In this particular example it would be seen at