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The Law of Cosines

Once you've mastered the concepts of sine and cosine, you can use them as building blocks for other useful tools in trigonometry. For example, the "law of cosines" is a special formula that helps you find the missing side or missing angle of a triangle.

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But from the equation c sin B = b sin C, we can easily get the law of sines: The law of cosines. There are two other versions of the law of cosines, a 2 = b 2 + c 2 – 2bc cos A and b 2 = a 2 + c 2 – 2ac cos B. Since the three verions differ only in the labelling of the triangle, it is enough to verify one just one of them.

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