

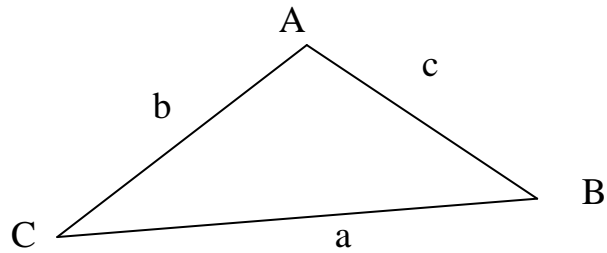
(1.5) The Cosine Law

The cosine law says that for any $\triangle ABC$,

$$c^2 = a^2 + b^2 - 2ab \cos C$$

$$a^2 =$$

$$b^2 =$$

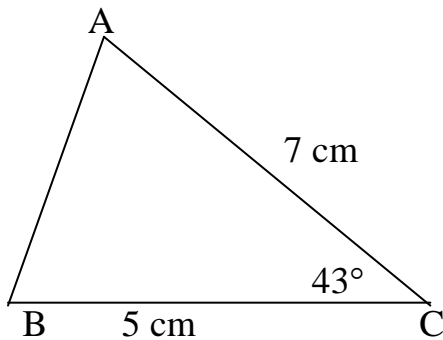


*** To use the cosine law you need to know at least _____.

*** If 2 sides of the triangle are known, **and** a _____, you can find the length of the third side.

*** If the length of the three sides of the triangle are known, you can find any unknown _____.

EX. 1 Find the value of side c.



EX. 2 Calculate $\angle A$ for $\triangle ABC$ if $a = 5$ cm, $b = 6$ cm, and $c = 7$ cm.