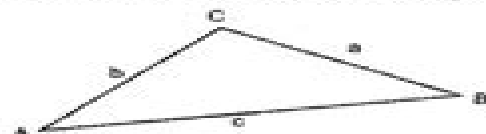


Law of Cosines

Given the triangle ABC with lengths a, b, c and angles $A, B,$ and C then,



- $a^2 = b^2 + c^2 - 2bc \cos A$
- $b^2 = a^2 + c^2 - 2ac \cos B$
- $c^2 = a^2 + b^2 - 2ab \cos C$

Note: a is the length of the side opposite angle A .

The law of cosines is significantly more difficult to use than that of the law of sines. Consider two cases: The first is solving for side a of a triangle, the second is solving for angle A .

- $a^2 = b^2 + c^2 - 2bc \cos A$
- $A = \cos^{-1} \left(\frac{b^2 + c^2 - a^2}{2bc} \right)$

Solve for x on each triangle. Round length to nearest tenth and angle to the nearest degree.

Example:



$$A = \cos^{-1} \left(\frac{34^2 - 20^2 - 15^2}{2(20)(15)} \right) = \cos^{-1} \left(\frac{531}{600} \right) = \cos^{-1} (0.885) = 152.25$$

$A = 152^\circ$

Note: The law of cosines works for all triangles.

1. $\cos^{-1} \left(\frac{96^2 - 45^2 - 60^2}{-2 \cdot 45 \cdot 60} \right) = x$
 $\boxed{28^\circ}$

2. $x^2 = 17^2 + 12^2 - 2 \cdot 17 \cdot 12 \cos x$
 $\boxed{x = 19}$

3. $\cos^{-1} \left(\frac{7^2 - 9^2 - 8^2}{-2 \cdot 9 \cdot 8} \right) = \boxed{73^\circ}$

4. $x^2 = 10^2 + 4^2 - 2 \cdot 4 \cdot 10 \cos 110$
 $11.973 \approx \boxed{12}$

5. $x \approx 15\sqrt{3}$
 $\boxed{216}$

6. $\cos^{-1} \left(\frac{29^2 - 56^2 - 32^2}{-2 \cdot 56 \cdot 32} \right)$
 $\boxed{221}$

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Paul A. Foerster



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