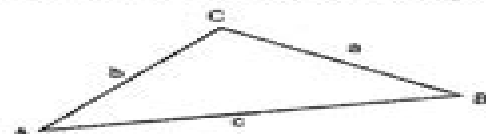


# Law of Cosines

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:**



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

$A = 152^\circ$

**Note:** The law of cosines works for all triangles.

1.  $\cos^{-1} \left( \frac{45^2 + 60^2 - 96^2}{2 \cdot 45 \cdot 60} \right) = x$   
 $\cos^{-1} \left( \frac{2025 + 3600 - 9216}{5400} \right) = x$   
 $\cos^{-1} \left( \frac{-3591}{5400} \right) = x$   
 $x = 28^\circ$

2.  $x^2 = 17^2 + 12^2 - 2 \cdot 17 \cdot 12 \cos 60^\circ$   
 $x^2 = 289 + 144 - 204 = 229$   
 $x = 15$

3.  $\cos^{-1} \left( \frac{9^2 + 8^2 - 7^2}{2 \cdot 9 \cdot 8} \right) = x$   
 $\cos^{-1} \left( \frac{81 + 64 - 49}{144} \right) = x$   
 $\cos^{-1} \left( \frac{96}{144} \right) = x$   
 $x = 73^\circ$

4.  $x^2 = 10^2 + 4^2 - 2 \cdot 4 \cdot 10 \cos 110^\circ$   
 $x^2 = 100 + 16 - 80 \cos 110^\circ$   
 $x^2 = 116 - 80(-0.342) = 116 + 27.36 = 143.36$   
 $x = 11.973 \approx 12$

5.  $\cos^{-1} \left( \frac{15^2 + 30^2 - 30^2}{2 \cdot 15 \cdot 30} \right) = x$   
 $\cos^{-1} \left( \frac{225 + 900 - 900}{900} \right) = x$   
 $\cos^{-1} \left( \frac{225}{900} \right) = x$   
 $\cos^{-1} \left( \frac{1}{4} \right) = x$   
 $x = 75.5^\circ$

6.  $\cos^{-1} \left( \frac{32^2 + 25^2 - 32^2}{2 \cdot 32 \cdot 25} \right) = x$   
 $\cos^{-1} \left( \frac{1024 + 625 - 1024}{1600} \right) = x$   
 $\cos^{-1} \left( \frac{625}{1600} \right) = x$   
 $\cos^{-1} \left( \frac{25}{64} \right) = x$   
 $x = 66.4^\circ$

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**Shasha Hu**



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