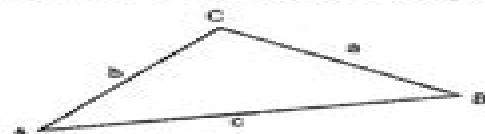


Law of Cosines

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. $\cos^{-1} \left(\frac{60^2 + 45^2 - 90^2}{2 \cdot 45 \cdot 60} \right) = x$
 $\cos^{-1} \left(\frac{3600 + 2025 - 8100}{5400} \right) = x$
 $\cos^{-1} \left(\frac{-2475}{5400} \right) = x$
 $\cos^{-1}(-0.4575) = x$
 $x = 28^\circ$

2. $x^2 = 17^2 + 12^2 - 2 \cdot 17 \cdot 12 \cos 60^\circ$
 $x^2 = 289 + 144 - 204 = 229$
 $x = \sqrt{229} \approx 15.1$
 $x = 19$

3. $\cos^{-1} \left(\frac{9^2 + 8^2 - 7^2}{2 \cdot 9 \cdot 8} \right) = x$
 $\cos^{-1} \left(\frac{81 + 64 - 49}{144} \right) = x$
 $\cos^{-1} \left(\frac{96}{144} \right) = x$
 $\cos^{-1}(0.6667) = x$
 $x = 73^\circ$

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

5. $x^2 = 15^2 + 30^2 - 2 \cdot 15 \cdot 30 \cos 60^\circ$
 $x^2 = 225 + 900 - 450 = 675$
 $x = \sqrt{675} \approx 25.98 \approx 26$

6. $\cos^{-1} \left(\frac{32^2 + 25^2 - 30^2}{2 \cdot 32 \cdot 25} \right) = x$
 $\cos^{-1} \left(\frac{1024 + 625 - 900}{1600} \right) = x$
 $\cos^{-1} \left(\frac{749}{1600} \right) = x$
 $\cos^{-1}(0.4681) = x$
 $x = 22^\circ$

Pre Calculus Worksheet Transformations Of Sines And Cosine

Mustafa A. Munem, James P. Yizze



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