

7-7 Study Guide and Intervention

The Law of Cosines

The Law of Cosines Another relationship between the sides and angles of any triangle is called the **Law of Cosines**. You can use the Law of Cosines if you know three sides of a triangle or if you know two sides and the included angle of a triangle.

Law of Cosines

Let $\triangle ABC$ be any triangle with a , b , and c representing the measures of the sides opposite the angles with measures A , B , and C , respectively. Then the following equations are true.

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

Example 1

In $\triangle ABC$, find c .

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

$$c^2 = 12^2 + 10^2 - 2(12)(10)\cos 48^\circ$$

$$c = \sqrt{12^2 + 10^2 - 2(12)(10)\cos 48^\circ}$$

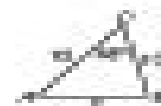
$$c \approx 9.1$$

Law of Cosines

$$a = 12, b = 10, \text{ and } C = 48^\circ$$

Take the square root of each side.

Use a calculator.



Example 2

In $\triangle ABC$, find $m\angle A$.

$$a^2 = b^2 + c^2 - 2bc \cos A$$

$$7^2 = 5^2 + 8^2 - 2(5)(8) \cos A$$

$$49 = 25 + 64 - 80 \cos A$$

$$-49 = -80 \cos A$$

$$\frac{1}{20} = \cos A$$

$$\cos^{-1} \frac{1}{20} = A$$

$$89^\circ = A$$

Law of Cosines

$$a = 7, b = 5, c = 8$$

Multiply.

Subtract 88 from each side.

Divide each side by -80 .

Use the inverse cosine.

Use a calculator.



Exercises

Find each measure using the given measures from $\triangle ABC$. Round angle measures to the nearest degree and side measures to the nearest tenth.

- If $b = 14$, $c = 12$, and $m\angle A = 82^\circ$, find a .
- If $a = 11$, $b = 10$, and $c = 12$, find $m\angle B$.
- If $a = 24$, $b = 18$, and $c = 18$, find $m\angle C$.
- If $a = 20$, $c = 25$, and $m\angle B = 83^\circ$, find b .
- If $b = 18$, $c = 28$, and $m\angle A = 58^\circ$, find a .
- If $a = 15$, $b = 18$, and $c = 13$, find $m\angle C$.

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