

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 .

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

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

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

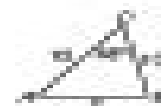
$$c \approx 9.1$$

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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Rosina Ehmann



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