

# Exterior Angles Of Triangles Answer Key

Unit: Angle Relationships  
Homework 4

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Date \_\_\_\_\_ Pd \_\_\_\_\_

## EXTERIOR ANGLES OF TRIANGLES

Answer each question below. Match your answers in the table to solve the riddle.

<p>1. Find the <math>m\angle KML</math>.</p> <p><math>50 + 110 + x = 180</math> <math>160 + x = 180</math> <math>x = 20</math> <math>U = 180 - 20 = 160</math></p>	<p>2. Find the <math>m\angle BDC</math>.</p> <p><math>30 + 100 + 50 = 180</math> <math>180 - 50 = 130</math></p>	<p>3. Find the <math>m\angle JPI</math>.</p> <p><math>65 + 75 + x = 180</math> <math>140 + x = 180</math> <math>x = 40</math> <math>I = 180 - 40 = 140</math></p>
<p>4. Find the value of <math>x</math>.</p> <p><math>2x + 5 + 3x + 5 + 123 = 180</math> <math>5x + 133 = 180</math> <math>5x = 47</math> <math>x = 9.4</math></p>	<p>5. Find the value of <math>x</math>.</p> <p><math>25 + 2x + 3 + 3x - 17 = 180</math> <math>5x + 11 = 180</math> <math>5x = 169</math> <math>x = 33.8</math></p>	<p>6. Find the value of <math>x</math>.</p> <p><math>2x + 4 + 5x + 2 + 12x - 4 = 180</math> <math>19x = 178</math> <math>x = 9.37</math></p>
<p>7. Find the <math>m\angle CVU</math>.</p> <p><math>65 + 2x + x + 10 = 180</math> <math>3x + 75 = 180</math> <math>3x = 105</math> <math>x = 35</math> <math>C = 180 - 2(35) = 110</math></p>	<p>8. Find the <math>m\angle YXZ</math>.</p> <p><math>3x + 5 + 4x + 8x - 14 = 180</math> <math>15x - 9 = 180</math> <math>15x = 189</math> <math>x = 12.6</math> <math>Y = 180 - (3(12.6) + 5) = 111.8</math></p>	<p>9. Find the <math>m\angle MNL</math>.</p> <p><math>5x + 15x - 12 + 7x + 2 = 180</math> <math>27x - 10 = 180</math> <math>27x = 190</math> <math>x = 7.04</math> <math>I = 180 - (7(7.04) + 2) = 129.72</math></p>

<del>G: 110</del>	A: 111	E: 45	O: 52	E: 62	<del>T: 60</del>
<del>C: 22</del>	D: 25	M: 112	<del>L: 143</del>	R: 135	N: 10

WHAT DO YOU CALL A CRUSHED ANGLE?

A R E C T A N G L E

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## Exterior Angles of Triangles: Answer Key and Comprehensive Guide

Are you struggling with exterior angles of triangles? Finding the right answers and understanding the underlying concepts can feel like navigating a geometric maze. This comprehensive guide provides not just an "exterior angles of triangles answer key," but a complete walkthrough of the topic, equipping you with the knowledge and skills to solve any problem confidently. We'll explore definitions, theorems, and practical applications, making this tricky geometry concept crystal clear.

# Understanding Exterior Angles

An exterior angle of a triangle is the angle formed by one side of the triangle and the extension of an adjacent side. Each vertex of a triangle has two exterior angles – one on each side of the extended line. However, we typically focus on one exterior angle at each vertex when working through problems.

#### Key Properties of Exterior Angles:

**The Exterior Angle Theorem:** This fundamental theorem states that the measure of an exterior angle of a triangle is equal to the sum of the measures of the two remote interior angles (the two angles that are not adjacent to the exterior angle). This is crucial for solving many problems.

**Supplementary Angles:** An exterior angle and its adjacent interior angle are supplementary; meaning they add up to 180 degrees. Understanding this relationship is essential for finding missing angles.

**Sum of Exterior Angles:** The sum of the exterior angles of any polygon (including triangles), one at each vertex, always equals 360 degrees. This property offers another avenue for solving problems, particularly those involving unknown angles.

## Solving Problems: A Step-by-Step Approach

Let's tackle some example problems using the exterior angles of triangles answer key principles we've learned.

Example 1:

A triangle has interior angles measuring  $50^\circ$  and  $70^\circ$ . Find the measure of the exterior angle at the third vertex.

Solution:

According to the Exterior Angle Theorem, the exterior angle is equal to the sum of the two remote interior angles. Therefore, the exterior angle measures  $50^\circ + 70^\circ = 120^\circ$ .

Example 2:

An exterior angle of a triangle measures  $115^\circ$ . One of the remote interior angles measures  $45^\circ$ . Find the measure of the other remote interior angle.

Solution:

The exterior angle equals the sum of the remote interior angles. Therefore,  $115^\circ = 45^\circ + x$ , where 'x' is the measure of the unknown remote interior angle. Solving for x, we get  $x = 115^\circ - 45^\circ = 70^\circ$ .

Example 3:

Two exterior angles of a triangle measure  $130^\circ$  and  $110^\circ$ . Find the measure of the third exterior angle.

Solution:

Remember that the sum of exterior angles of a triangle is  $360^\circ$ . Therefore, the third exterior angle measures  $360^\circ - 130^\circ - 110^\circ = 120^\circ$ .

## Advanced Applications and Problem Solving

The exterior angle theorem isn't just limited to simple calculations. It forms the foundation for solving more complex geometrical problems involving:

**Isosceles Triangles:** Understanding exterior angles is crucial when working with problems involving isosceles triangles (triangles with two equal sides).

**Proofs and Geometric Constructions:** Exterior angles often play a vital role in geometric proofs and constructions, requiring a strong grasp of the fundamental theorems.

**Real-world Applications:** While seemingly abstract, understanding exterior angles has applications in various fields such as surveying, architecture, and engineering.

## Exterior Angles of Triangles Answer Key: Beyond the Basics

This guide aims to be more than a simple "exterior angles of triangles answer key." It provides a robust understanding of the underlying principles, enabling you to confidently tackle any problem involving exterior angles. Remember to practice regularly, applying the theorems and techniques to various scenarios. The more you practice, the more intuitive these concepts will become.

Conclusion:

Mastering exterior angles of triangles is a crucial step in your geometry journey. By understanding the Exterior Angle Theorem and its implications, you'll be able to solve a wide range of problems efficiently and accurately. Remember to break down complex problems into smaller, manageable steps, focusing on applying the fundamental principles we've discussed.

FAQs:

1. What happens if I use the other exterior angle at a vertex? Using the other exterior angle at a

vertex will still lead to the same result because it forms a linear pair (adds to  $180^\circ$ ) with the interior angle used in the first example.

2. Can an exterior angle be greater than  $180^\circ$ ? No, exterior angles are always less than  $180^\circ$ . They are formed by extending one side of the triangle, resulting in an angle supplementary to the adjacent interior angle.

3. How does the sum of exterior angles relate to the number of sides of a polygon? The sum of exterior angles of any polygon is always  $360^\circ$ . This is independent of the number of sides.

4. What if I'm given the measures of all three exterior angles? How can I find the interior angles? Subtract each exterior angle from  $180^\circ$  to find the corresponding interior angle.

5. Where can I find more practice problems? Numerous online resources and textbooks provide practice problems on exterior angles of triangles. Search for "exterior angles of triangles worksheets" or "geometry practice problems."

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