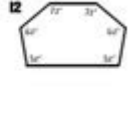


The Polygon Angle Sum Theorems Answer Key

Find the missing angle measures.

10  $x = \underline{\hspace{2cm}}$

11  $y = \underline{\hspace{2cm}}$

12  $z = \underline{\hspace{2cm}}$

POLYGON EXTERIOR ANGLE-SUM THEOREM
The sum of the measures of the exterior angles of a polygon, one at each vertex is $\underline{360^\circ}$.
For the hexagon shown at the right,
 $m\angle 1 + m\angle 2 + m\angle 3 + m\angle 4 + m\angle 5 + m\angle 6 = \underline{360}$.
For a regular polygon like the one shown, $m\angle 1 = 360 \div \underline{6} = \underline{60}$.

The measure of an exterior angle of a regular polygon is given. Find the measure of an interior angle. Then find the number of sides.

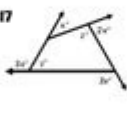
13 36 $\text{interior angle} = \underline{\hspace{2cm}}$

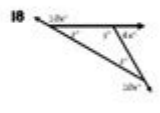
14 30 $\text{interior angle} = \underline{\hspace{2cm}}$

15 120 $\text{interior angle} = \underline{\hspace{2cm}}$

Find the value of each variable.

16  $x = \underline{\hspace{2cm}}$
 $y = \underline{\hspace{2cm}}$

17  $x = \underline{\hspace{2cm}}$
 $y = \underline{\hspace{2cm}}$
 $z = \underline{\hspace{2cm}}$

18  $x = \underline{\hspace{2cm}}$
 $y = \underline{\hspace{2cm}}$
 $z = \underline{\hspace{2cm}}$

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The Polygon Angle-Sum Theorems: Answer Key and Comprehensive Guide

Are you struggling to understand polygon angle-sum theorems? Do you need a reliable resource to check your answers and solidify your grasp of this essential geometry concept? Then you've come to the right place! This comprehensive guide provides not only an answer key to common polygon angle-sum theorem problems but also a thorough explanation of the theorems themselves, equipping you with the knowledge and skills to solve any problem you encounter. We'll break down the concepts, offer practical examples, and provide you with the tools to confidently tackle these geometric challenges. Let's dive in!

Understanding Polygon Angle-Sum Theorems

Before we jump into specific problems and solutions, let's build a solid foundation. Polygon angle-sum theorems describe the relationship between the number of sides of a polygon and the sum of its interior angles. This relationship is crucial for solving a wide range of geometry problems.

The Key Theorems

Triangle Angle Sum Theorem: This is the foundational theorem. The sum of the interior angles of any triangle always equals 180 degrees.

Quadrilateral Angle Sum Theorem: The sum of the interior angles of any quadrilateral (four-sided polygon) always equals 360 degrees.

General Polygon Angle-Sum Theorem: This is the most powerful theorem, applicable to polygons with any number of sides (n). The sum of the interior angles of an n -sided polygon is given by the formula: $(n-2) 180$ degrees.

Applying the Theorems: A Step-by-Step Approach

To successfully apply these theorems, follow these steps:

1. Identify the polygon: Determine the number of sides (n) of the polygon.
2. Apply the appropriate theorem: Use the correct formula based on the number of sides. For triangles and quadrilaterals, use the specific theorems. For polygons with more than four sides, use the general formula: $(n-2) 180$ degrees.
3. Solve for the unknown: If you're given some angles and need to find others, substitute the known values into the equation and solve for the unknown angle(s).

Example Problems and Solutions: Your "Answer Key"

Let's work through a few examples to illustrate the application of the polygon angle-sum theorems.

Example 1: A Pentagon

Problem: Find the sum of the interior angles of a pentagon.

Solution: A pentagon has 5 sides ($n=5$). Using the general formula: $(5-2) 180 = 3 180 = 540$ degrees. Therefore, the sum of the interior angles of a pentagon is 540 degrees.

Example 2: Finding a Missing Angle

Problem: A quadrilateral has three angles measuring 70° , 100° , and 110° . Find the measure of the fourth angle.

Solution: The sum of the angles in a quadrilateral is 360° . Let x be the measure of the fourth angle. Therefore, $70^\circ + 100^\circ + 110^\circ + x = 360^\circ$. Solving for x , we get $x = 80^\circ$.

Example 3: A Heptagon (Seven-Sided Polygon)

Problem: What is the sum of the interior angles of a heptagon?

Solution: A heptagon has 7 sides ($n=7$). Using the formula: $(7-2) 180 = 5 180 = 900$ degrees.

Beyond the Basics: Exterior Angles

While we've focused on interior angles, understanding exterior angles is equally important. The sum of the exterior angles of any polygon, regardless of the number of sides, always equals 360 degrees. This is a valuable tool for solving problems where interior angles are difficult to determine directly.

Conclusion

Mastering polygon angle-sum theorems is a fundamental step in mastering geometry. By understanding the theorems, applying the formulas correctly, and practicing with example problems, you'll build confidence and proficiency in solving a wide range of geometric challenges. Remember to use the appropriate formula based on the number of sides and always double-check your work. This guide provides a strong foundation – keep practicing, and you'll become a geometry expert in no time!

FAQs

1. What happens if the polygon is not regular? The theorems apply to all polygons, regardless of whether they are regular (all sides and angles equal) or irregular.
2. Can I use these theorems for concave polygons? Yes, these theorems apply to both convex and

concave polygons.

3. Are there other related theorems I should know about? Yes, exploring theorems related to exterior angles, inscribed angles, and central angles will deepen your understanding of polygon geometry.

4. Where can I find more practice problems? Many geometry textbooks and online resources offer extensive practice problems on polygon angle-sum theorems.

5. What if I have a polygon with a very large number of sides? The formula $(n-2) \times 180$ remains accurate and efficient even for polygons with a large number of sides. Simply substitute the value of 'n' and calculate the result.

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