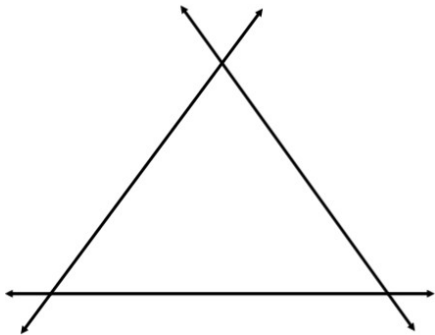


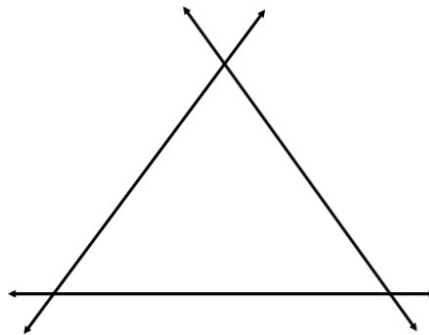
In Class Notes

Angles inside a polygon are called _____.

When the sides of the polygon are extended, other angles are formed. The angles outside the polygon that are adjacent to the interior angles are called _____.



Interior Angles

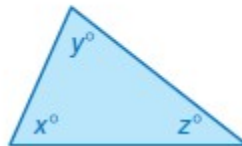


Exterior Angles

Interior Angle Measures of a Triangle

Words The sum of the interior angle measures of a triangle is 180° .

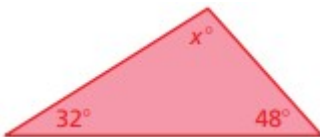
Algebra $x + y + z = 180$



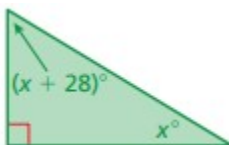
Ex:) Find the measures of the interior angles of each triangle.

Notes:

a.



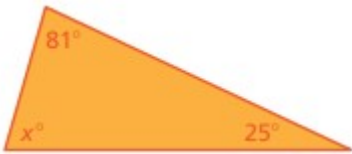
b.



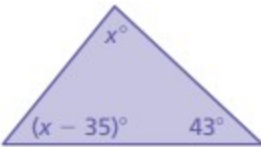
OYO:) Find the measures of the interior angles of each triangle.

Notes:

a.

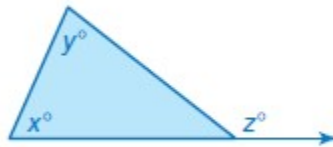


b.



Exterior Angle Measures of a Triangle

Words The measure of an exterior angle of a triangle is equal to the sum of the measures of the two nonadjacent interior angles.

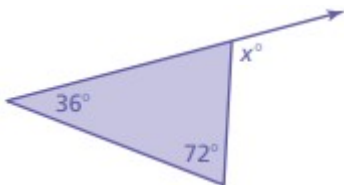


Algebra $z = x + y$

Ex:) Find the measure of the exterior angle.

Notes:

a.

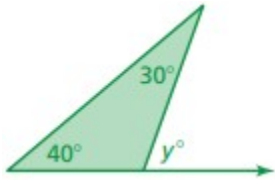


b.



OYO:) Find the measure of the exterior angle.

Notes:



Ex:) An airplane leaves Miami and travels around the Bermuda Triangle as shown in the diagram. What is the measure of the interior angle at Miami?

Notes:



OYO:) The Historic Triangle in Virginia connects Jamestown, Williamsburg, and Yorktown. The interior angle at Williamsburg is 120° . The interior angle at Jamestown is twice the measure of the interior angle at Yorktown. Find the measures of the interior angles at Jamestown and Yorktown.

Notes:

