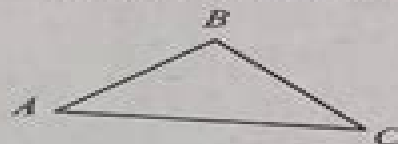


# Triangle Angle Sum Theorem

The sum of the measures of the angles of a triangle is  $180^\circ$ .



$$m\angle A + m\angle B + m\angle C = 180^\circ$$

# Exterior Angle Theorem

An exterior angle is formed by extending any one side of the triangle.



An exterior is always equal to the sum of the two non-adjacent interior angles.

$$m\angle 1 = m\angle 2 + m\angle 3$$

Directions: Find all missing angles.

1. 
$$\begin{array}{r} 24 \\ + 37 \\ \hline 61 \end{array} - 180$$
  
 $m\angle 1 = 119^\circ$

2. 
$$\begin{array}{r} 76 \\ + 52 \\ \hline 128 \end{array}$$
  
 $m\angle 1 = 128^\circ$

3.  $m\angle 1 = \underline{\hspace{2cm}}$

4. 
$$\begin{array}{r} 180 \\ - 150 \\ \hline 30 \end{array} \quad \begin{array}{r} 160 \\ + 84 \\ \hline 244 \end{array}$$
  
 $m\angle 1 = 30^\circ$   
 $m\angle 2 = \underline{\hspace{2cm}}$   
 $m\angle 3 = \underline{\hspace{2cm}}$

5.  $m\angle 1 = \underline{\hspace{2cm}}$   
 $m\angle 2 = \underline{\hspace{2cm}}$   
 $m\angle 3 = \underline{\hspace{2cm}}$

6.  $m\angle 1 = \underline{\hspace{2cm}}$   
 $m\angle 2 = \underline{\hspace{2cm}}$   
 $m\angle 3 = \underline{\hspace{2cm}}$

7.  $\overline{BC}$  bisects  $\angle ACD$   
 $m\angle 1 = \underline{\hspace{2cm}}$   
 $m\angle 2 = \underline{\hspace{2cm}}$   
 $m\angle 3 = \underline{\hspace{2cm}}$   
 $m\angle 4 = \underline{\hspace{2cm}}$

# Gina Wilson 2015 Geometry Arc And Angle Measures

**Isidore Dressler**



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across the flat surface known as size across flat 1 5 d 3 mm the diameter of the nut d in mm the thickness of the nut 0 8 d to d the radius of front chamfer 1 5 d the angle of chamfer 30

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