

Finding Missing Interior and Exterior Angles of Triangles #2

Find the measure of each angle represented by the variable. Make sure to include the degree symbol in your answer.

1. $m\angle A = \underline{27^\circ}$

A triangle with interior angles of 111° and 42° . The exterior angle at the vertex labeled A is formed by extending the side opposite to A .

2. $m\angle C = \underline{126^\circ}$

A triangle with interior angles of 50° and 76° . The exterior angle at the vertex labeled C is formed by extending the side opposite to C .

3. $m\angle X = \underline{128.6^\circ}$

A triangle with interior angles of 84.5° and 44.1° . The exterior angle at the vertex labeled X is formed by extending the side opposite to X .

4. $m\angle B = \underline{77.1^\circ}$

A triangle with interior angles of 68.3° and 34.6° . The exterior angle at the vertex labeled B is formed by extending the side opposite to B .

5. $m\angle N = \underline{51.9^\circ}$

A right-angled triangle with a right angle symbol at the bottom-right vertex. One interior angle is 38.1° . The exterior angle at the vertex labeled N is formed by extending the side opposite to N .

6. $m\angle Z = \underline{132.6^\circ}$

A right-angled triangle with a right angle symbol at the top-left vertex. One interior angle is 42.6° . The exterior angle at the vertex labeled Z is formed by extending the side opposite to Z .