MY Homework

Lesson 8

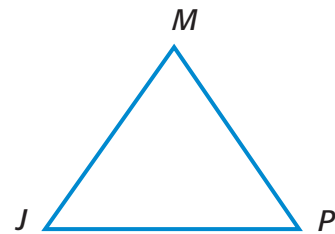**Triangles**

Homework Helper eHelp

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Identify the vertices and line segments of each triangle. Identify it as *right*, *acute*, or *obtuse*.

There are three vertices. They are *J, M,* and *P*.

There are three line segments. They are $\overline{JM}$, $\overline{MP}$, and $\overline{JP}$.
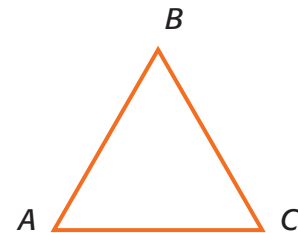
The triangle has 3 acute angles, so it is an acute triangle.

The vertices are *A, B,* and *C*.

The three line segments are $\overline{AB}$, $\overline{BC}$, and $\overline{AC}$.
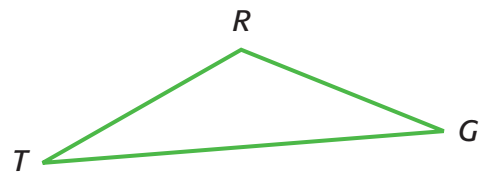
The triangle has a right angle, so it is a right triangle.
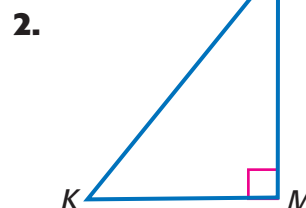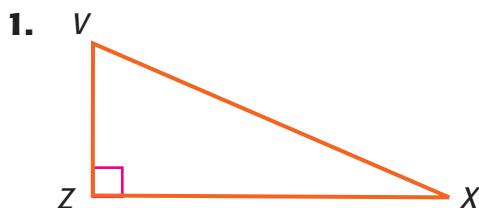
The three vertices are *T, R,* and *G*.

The three line segments are $\overline{TR}$, $\overline{RG}$, and $\overline{TG}$.

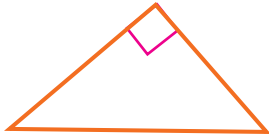The triangle has an obtuse angle, so it is an obtuse triangle.

Practice
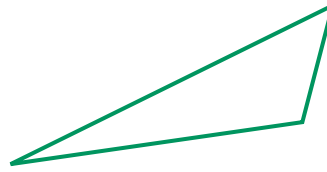
Identify the perpendicular sides of each right triangle.

1.

2.

_____   _____

Classify each triangle as *acute*, *right*, or *obtuse*.
Determine how many sides appear to be perpendicular.

3.

4.

_____
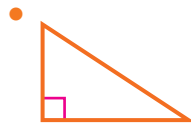
_____

 Problem Solving

5. **PRACTICE** ❸ **Justify Conclusions** Can a triangle have two right angles? Explain.

_____

_____

Vocabulary Check

Draw a line to match each vocabulary term to its example.

6. acute triangle

7. obtuse triangle

8. right triangle

Test Practice

9. Which is an acute triangle?

Ⓐ 　　Ⓒ 　　Ⓑ 　　Ⓓ

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