Draw an example of each triangle

Classifying Triangles

Triangle Classification  By Angle Measures
Acute triangle  Equiangular triangle  Right triangle  Obtuse triangle

Triangle Classification  By Side Lengths
Three congruent sides  Two congruent sides  No congruent sides
Classifying Triangles

Classify each angle.

1. Right angle

2. Obtuse angle

3. Acute angle

4. If the perimeter is 47, find $x$ and the length of each side.

\[ 2x + 6 \quad x + 3 \quad 3x + 8 \]

Angle Relationships in Triangles

1. Find the measure of exterior $\angle DBA$ of $\triangle BCD$, if $m\angle DBC = 30^\circ$, $m\angle C = 70^\circ$, and $m\angle D = 80^\circ$.

2. What is the complement of an angle with measure $17^\circ$?

3. How many lines can be drawn through $N$ parallel to $\overline{MP}$? Why?