### 4.3 Isosceles and Equilateral Triangles

Objective: Use properties of isosceles and equilateral triangles.

The congruent sides of an isosceles triangle are called legs.

The other side is called the base.
The two angles formed by the base of the triangle are called the base angles.

The angle included in the legs is called
 the vertex angle.

Base Angles Theorem: If two sides of a triangle are congruent, then the angles opposite them are congruent.


Converse of the Base Angles Theorem: If two angles of a triangle are congruent, then the sides opposite them are congruent.


Checkpoint at the bottom of page 186.

Equilateral Theorem: If a triangle is equilateral, then it is equiangular.


Equiangular Theorem: If a triangle is equiangular, then it is equilateral.


Example: Find the values of the variables.


