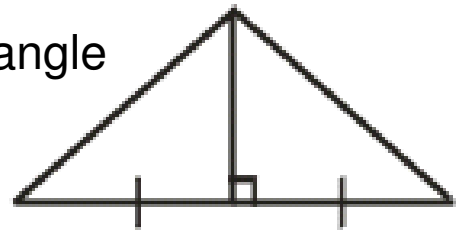


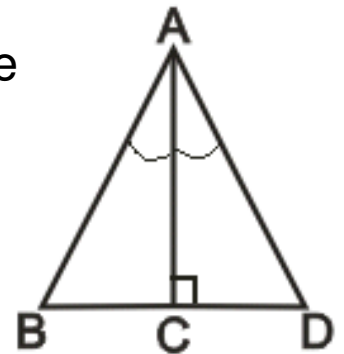
Properties of Isosceles Triangles

An *isosceles triangle* has at least two equal sides. Notice that this means that an equilateral triangle is a special isosceles triangle, and therefore has all of the same properties of an isosceles triangle (plus some extras).

- 1) The perpendicular height of an isosceles triangle cuts the base into two equal pieces.
($AD = DC$)



- 2) The perpendicular height of an isosceles triangle cuts the upper angle into two equal angles.
($m\angle ABD = m\angle CBD$)



- 3) The two angles opposite the equal sides are congruent.
($m\angle BAC = m\angle BCA$)

