

Common Core Geometry Proof – Triangles_2
Isosceles Triangle – Base Angles

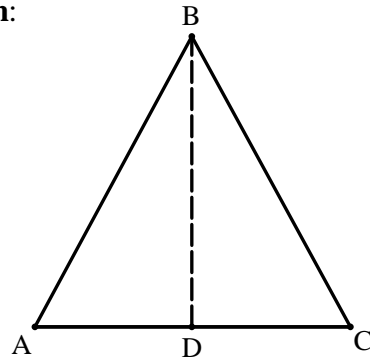
Theorem: If a triangle is an isosceles triangle, then the angles opposite the congruent sides (i.e., base angles) are congruent.

Given: Isosceles $\triangle ABC$, with base \overline{AC}

Construction: \overline{BD} bisects $\angle ABC$

Prove: $\angle BAC \cong \angle BCA$

Diagram:



Statements

Reasons