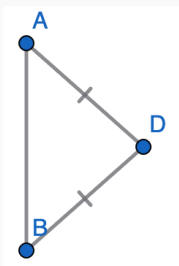


The Base Angles Theorem and Its Converse

VOCABULARY — *Isosceles Triangle*

Isosceles Triangle — Vocabulary



Legs:

Base:

Apex angle:

Base angles:

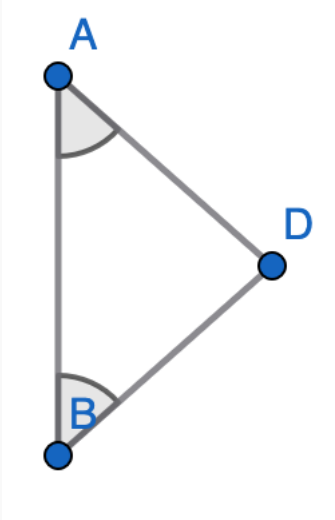
THE BASE ANGLES THEOREM — *Euclid Proposition 5*

Base Angles Theorem

Conditional form:

Converse of the Base Angles Theorem

Conditional form:



THE BICONDITIONAL

The Biconditional

When both a conditional and its converse are true, they can be combined into a single statement using “if and only if.”

Write the biconditional for the base angles theorem:

Why does a biconditional require both directions to be proven separately?