

Pre-Teach Phil & Ned
(Pythagorean Theorem & Its Converse)

Name: _____

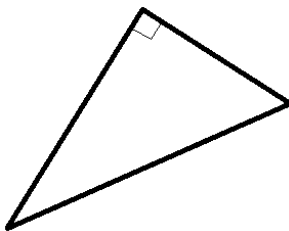
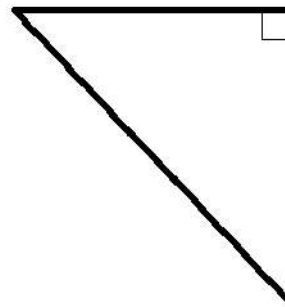
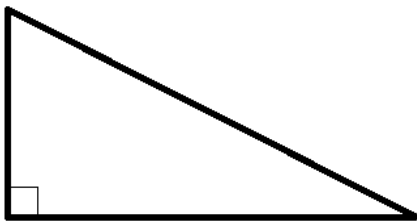
8.GM.B.6 Distinguish between applications of the Pythagorean Theorem and its Converse in authentic contexts.

Can you think of an “If \rightarrow then” statement?

The _____ of the statement switches the hypothesis and conclusion.

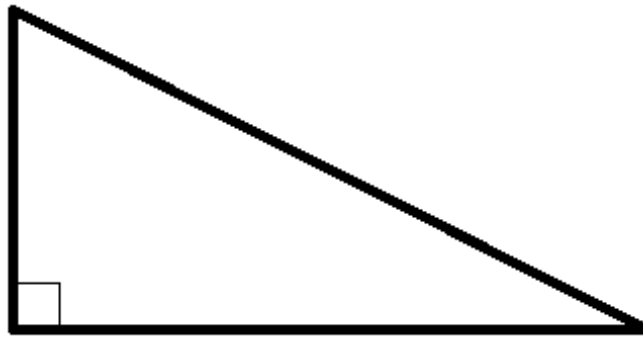
Pythagorean Theorem

If we have a right triangle...



...then Pythagorean Theorem works.

Pythagorean Theorem: In all right triangles, the sum of the squares of the legs is equal to the square of the hypotenuse.



$$(\textit{leg})^2 + (\textit{leg})^2 = (\textit{hypotenuse})^2$$

Pythagorean Theorem:



The Converse of Pythagorean Theorem:

