Geometry

7.2 Use the Converse of the Pythagorean Theorem

## Converse of the Pythagorean Theorem

longest

short

If \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ where a and b are the length of the \_\_\_\_\_\_\_\_\_\_ sides and c is the length of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ side, then it is a \_\_\_\_\_\_\_\_\_\_ triangle.

right

Tell whether a triangle with the given sides is a right triangle.

Yes

longest

If c is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ side and…

acute

c2 < a2 + b2 🡪 \_\_\_\_\_\_\_\_\_\_ triangle

right

c2 = a2 + b2 🡪 \_\_\_\_\_\_\_\_\_\_ triangle

obtuse

c2 > a2 + b2 🡪 \_\_\_\_\_\_\_\_\_\_ triangle

Show that the segments with lengths 3, 4, and 6 can form a triangle

Classify the triangle as acute, right or obtuse.

Obtuse

Assignment: 444 #2-30 even, 33, 38, 40, 44-52 even = 23

Extra Credit: 447 #2, 8 = +2