HW: THE CONVERSE OF THE PYTHAGOREAN THEOREM

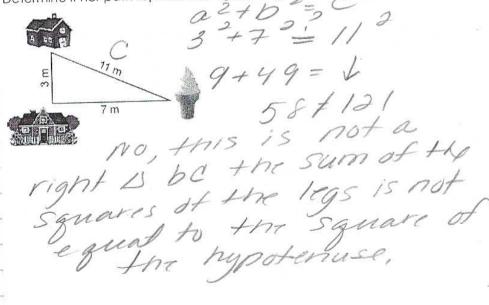
Created for you by Ms. Nhotsoubanh

1. Determine if the triangle shown below represents a right triangle. Show work to support your answer.

to support your answer. $a^2 + b^2 = C$ $9^2 + 40^2 = 41$ 81 + 1600 = 1681 1681 = 1681

2. On Monday morning Marie walked to school. Afterwards she went with some friends to get ice cream, and then she walked back home.

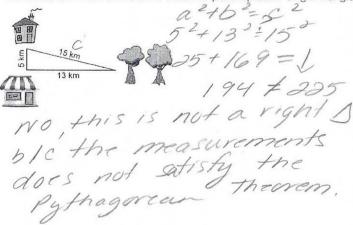
Determine if her path represents a right triangle.



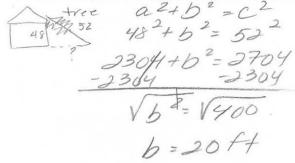
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Glue on page 51

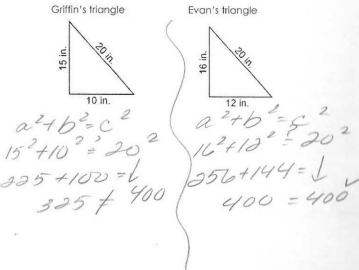
3. Angie leaves her house for a jog. Her path to the store, the park, and then back home is shown below. Does her path represent a right triangle?



4. During a storm, a 52-foot tree falls toward a house. The top of the tree leans against the house 48 feet above the ground. What is the distance on the ground from the house to the base of the tree? Draw a diagram.



5. Griffin and Evan each drew a triangle in their notebook. Determine if their triangles are right triangles.



6. A pilot in the sky sees another plane about to take off 500 meters away The base of the airplane in the sky is 400 meters from the grounded plane

