

Leveled Practice In 1 and 2, determine whether each triangle is a right triangle.





2	14	21	10
3	<u>6</u>	<u>8</u>	<u>10</u>
	11	11	11

PRACTICE

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TUTORIAL

5. The length of one leg of a right triangle is 8 centimeters shorter than the hypotenuse. The hypotenuse is 42 centimeters. What is the length of the unknown leg of the right triangle rounded to the nearest tenth?

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6. Model with Math $\triangle ABC$ is an isosceles triangle. Is \overline{AD} the height of $\triangle ABC$? Explain. **(G)** MP.4



7. Higher Order Thinking The side lengths of three triangles are given. Triangle 1: $\sqrt{519}$ units, 27 units, $\sqrt{210}$ units Triangle 2: 21 units, $\sqrt{109}$ units, $\sqrt{420}$ units Triangle 3: $\sqrt{338}$ units, 26 units, $\sqrt{338}$ units **a.** Which lengths represent the side lengths of a right triangle? Explain.

b. For any triangles that are not right triangles, use any two of the sides to make a right triangle. Explain.

Assessment Practice

8. Is the $\triangle ABC$ a right triangle? Explain.



- **9.** Which lengths represent the side lengths of a right triangle?
 - Triangle 1: 4, 6,10

Triangle 2: 6, 8, 10

Triangle 3: 10, 24, 26

- (a) Triangle 1 and Triangle 3 are right triangles.
- B Triangle 2 and Triangle 3 are right triangles.
- © All of the triangles are right triangles.
- D None of the triangles are right triangles.

