Geometry A Section 7.4 Special Right Triangles 45-45-90

Name :	
Date : _	Period : _



a.

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- I can apply special right triangle ratios to find unknown side lengths.
- I can use special right triangles in real world situations.



## Example 1: Find lengths in a 45° – 45° – 90° triangle

Find the value of x. Leave answer in simplest radical form.









## Example 2: Apply 45° – 45° – 90° Triangle Theorem

Find the perimeter and area of the square whose diagonal is  $7\sqrt{2}$  inches long.

## Example 3: Apply 45° – 45° – 90° and 30° – 60° – 90° Triangle Theorem

Solve for x and y in the diagram below.

