# Unit 7 Lesson 2 Notes- Special Right Triangles

45° - 45° - 90° Triangle Theorem

In a  $45^{\circ} - 45^{\circ} - 90^{\circ}$  triangle, the hypotenuse is  $\sqrt{2}$  times as long as each leg.

Break it down:

- If you know one acute angle in a right triangle is 45°, how do you find the measurement of the other acute angle? What is its measure?
- The two legs are always THE SAME

Make a table: Leg Leg Hypotenuse

What the problem gives you.

Special pattern

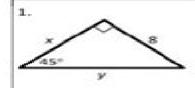
x √2 x√2 + x √2

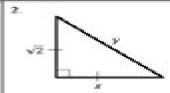
To solve: We can use proportions:

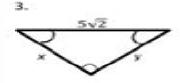
Example

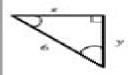


Practice: Find the length of the missing side(s). Leave your answer in simplest radical form (NO DECIMALS). Make sure to rationalize, if necessary.









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**M** Lipman

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