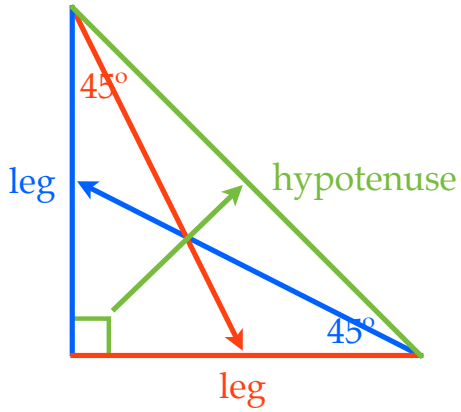
45-45-90 Special Right Triangles

Name _____

Date _____ Period _____

45°-45°-90° Special Right Triangle

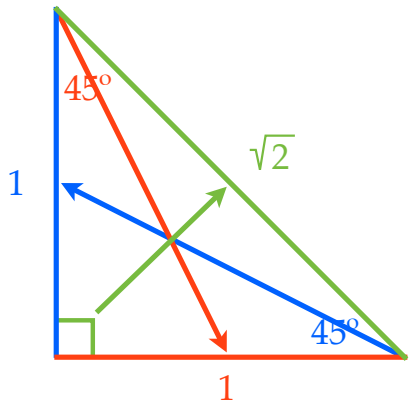


The measurement of the legs are equal.

The measurement of the hypotenuse is equal to $\sqrt{2}$ times the measure of a leg.

The side measurements of a 45°-45°-90° triangle always form a constant ratio. Given one side length, we can solve for the missing two.

45°-45°-90° Special Right Triangle



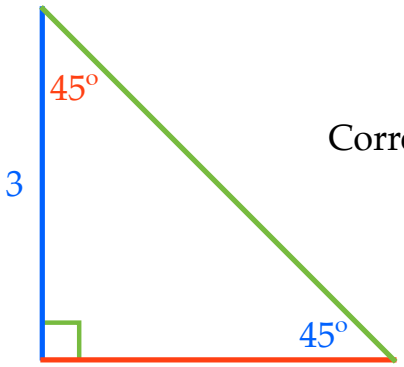
Angles ⇒	45°	45°	90°
Constant Ratio ⇒	1	1	$\sqrt{2}$

The measurement of the legs are equal.

The measurement of the hypotenuse is equal to $\sqrt{2}$ times the measure of a leg.

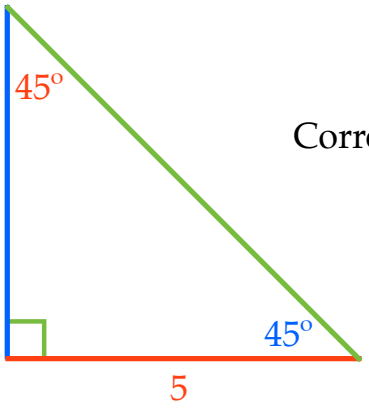
The side measurements of a 45°-45°-90° triangle always form a constant ratio. Given one side length, we can solve for the missing two.

Solve for the missing sides of the following triangles



Angles ⇒	45°	45°	90°
Constant Ratio ⇒	1	1	$\sqrt{2}$
Corresponding Sides ⇒			

Solve for the missing sides of the following triangles



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Corresponding Sides ⇒			

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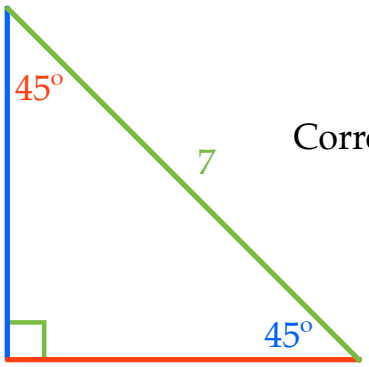

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Corresponding Sides ⇒			

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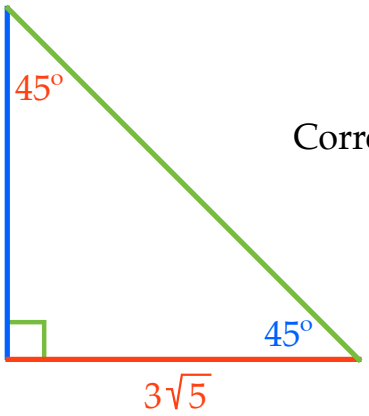

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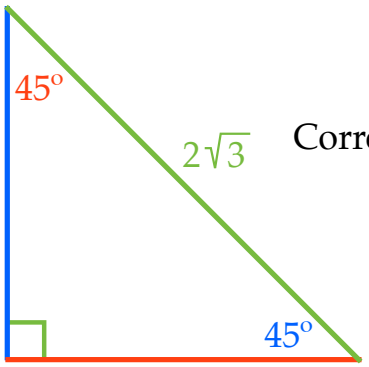

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