

9.2**Notetaking with Vocabulary**

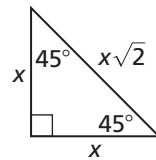
For use after Lesson 9.2

In your own words, write the meaning of each vocabulary term.

isosceles triangle

Theorems**Theorem 9.4 45°-45°-90° Triangle Theorem**

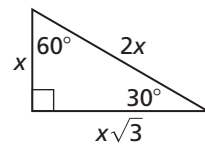
In a 45°-45°-90° triangle, the hypotenuse is $\sqrt{2}$ times as long as each leg.

Notes:

$$\text{hypotenuse} = \text{leg} \cdot \sqrt{2}$$

Theorem 9.5 30°-60°-90° Triangle Theorem

In a 30°-60°-90° triangle, the hypotenuse is twice as long as the shorter leg, and the longer leg is $\sqrt{3}$ times as long as the shorter leg.

Notes:

$$\text{hypotenuse} = \text{shorter leg} \cdot 2$$

$$\text{longer leg} = \text{shorter leg} \cdot \sqrt{3}$$