Special Right Triangles: 45-45-90
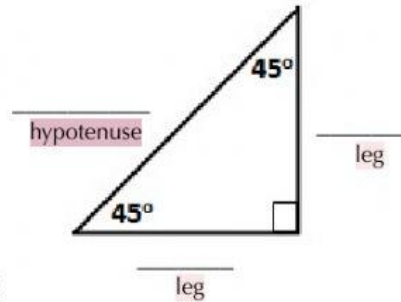
In a 45-45-90 triangle:

* Two angles measure _____ degrees

* One angle measures _____ degrees

* The legs are _____

The Rule:

* The hypotenuse is $\sqrt{2}$ times the length of a leg

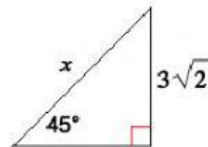$$hypotenuse = leg(\sqrt{2})$$

$$leg = \frac{hypotenuse}{\sqrt{2}}$$
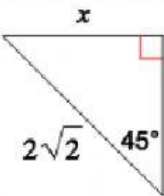
EXAMPLES
Find the value of x in each triangle

Given:

_____

Solve for:

_____

Given:

_____

Solve for:

_____

Given:

_____

Solve for:

_____

Given:

_____

Solve for:

_____