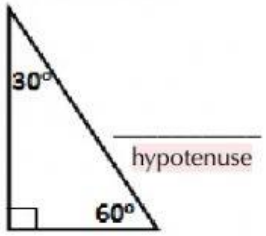
Special Right Triangles: 30-60-90

In a 30-60-90 triangle:

* There is a _____ degree angle, _____ degree angle, and a _____ degree angle



The Rules:

* The hypotenuse is 2 times the length of the shortest leg
* The longer leg is $\sqrt{3}$ times the length of the shortest leg

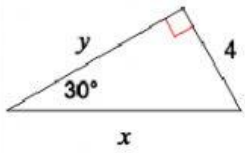
$$longest\ leg = shortest\ leg(\sqrt{3})$$

$$shortest\ leg = \frac{longest}{\sqrt{3}}$$

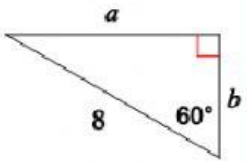
$$hypotenuse = 2 * shortest\ leg$$

$$shortest\ leg = \frac{hypotenuse}{2}$$

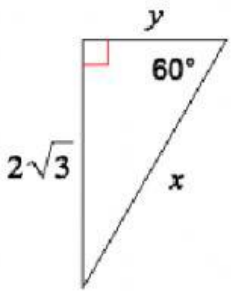
EXAMPLES



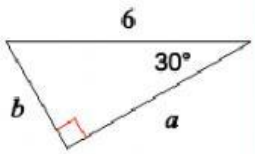
Given: _____



Given: _____



Given: _____



Given: _____