

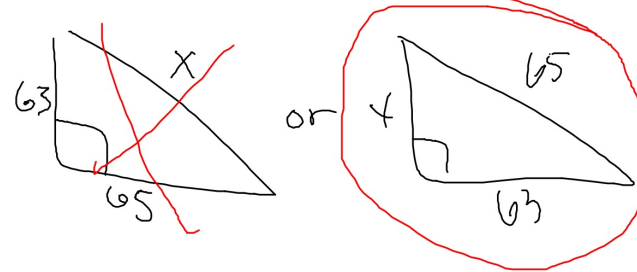
Bellwork Monday, March 10, 2014

The lengths of the sides of a triangle are given.
Tell if each triangle is obtuse, acute, or right.

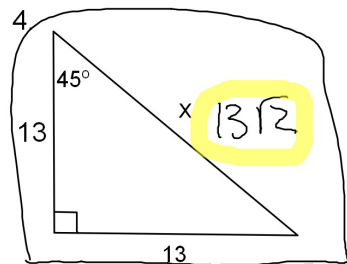
1. $18, 25, 32$ 2. $43, 72, 82$
- $18^2 + 25^2 = 949 < 1024 = 32^2$
obtuse
- Acute

3. Two sides of a right triangle are given. The length of the third side is an integer. Find the missing third side.

$63, 65, \underline{16}$



Find the length of the missing side. Give your answer in simplified radical form.



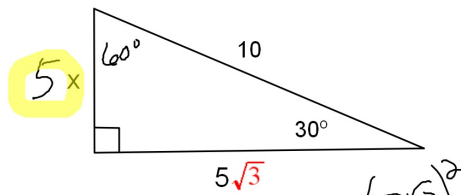
$$13^2 + 13^2 = x^2$$

$$169 + 169 = x^2$$

$$338 = x^2$$

$$x = \sqrt{338} = 13\sqrt{2}$$

5.



$$10^2 = x^2 + (5\sqrt{3})^2$$

$$100 = x^2 + 75$$

$$25 = x^2 \rightarrow x = 5$$