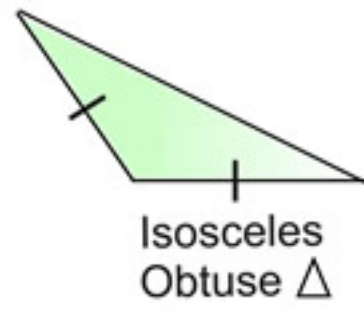
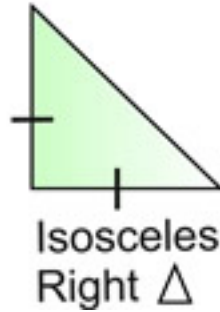
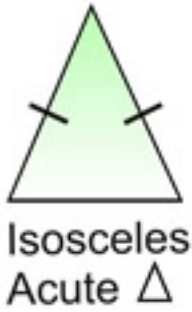


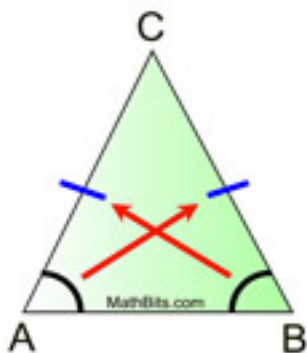
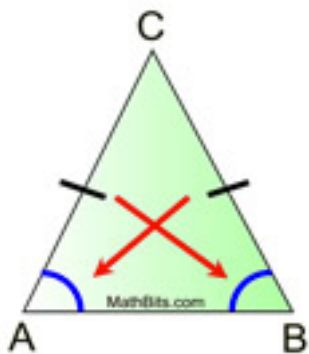
Quick Tip!

An isosceles triangle is generally drawn so it is sitting on its _____. This may not, however, be the case in all drawings. These can be tricky triangles, so beware!



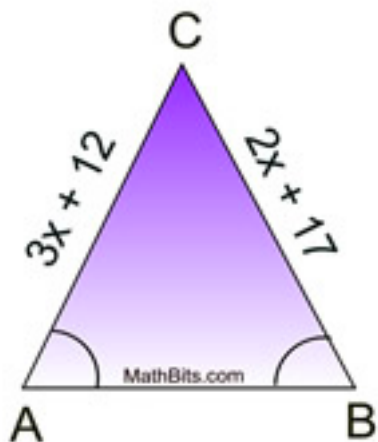
It's THEOREM time!

THEOREM: If two sides of a triangle are congruent, the angles opposite them are congruent. OR: The base angles of an isosceles triangle are congruent.



Let's investigate this THEOREM with some practice problems!

1. Find \overline{AC} and \overline{BC} .



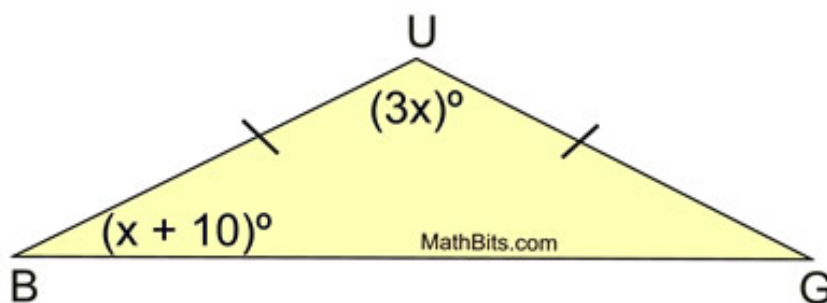
- 2.

$\triangle BUG$ is isosceles.

$$m\angle B = x + 10$$

$$m\angle U = 3x$$

Find $m\angle U$.



3. The vertex angle of an isosceles triangle measures 20 degrees more than twice the measure of one of its base angles. How many degrees are there in a base angle of this triangle?