Triangles

3...

A triangle is a polygon with three sides... (A polygon is just a figure made up of straight line segments).

Triangles are incredibly useful, that is why we will practice all kinds of problems with them. In physics a triangle is one of the strongest shapes; it can be used to find distances, navigate ships and airplanes and is even used for GPS. In fact, every other polygon can be made out of triangles. They are so important that there is a whole branch of mathematics dedicated to studying them (trigonometry).

There are several classifications of triangles. You should know all of these...

Acute Triangle







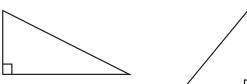


A triangle made of 3 acute angles.

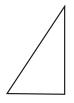
Right Triangle

A triangle that has ONE obtuse angle.

Scalene Triangle







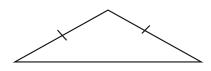




A triangle that has three sides of different lengths.

Isosceles Triangle





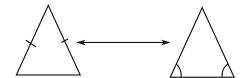
Equilateral Triangle





A triangle that has two sides that are the same length.

There is a theorem that says the two base angles Also, because of the triangle sum theorem, (you of an isoceles triangle are also equal...



A triangle that has three sides that are the same length.

will learn this later) all the angles in an equilateral triangle measure 60°.

