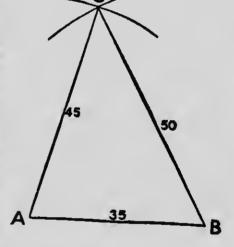
In each case compare the magnitudes of the sides adjacent to the equal angles.

The result of our observations is that if two angles of a triangle are equal, the sides opposite to these angles are also equal.

In the case of each of the above triangles measure the size of the angle at the top, or vertex, of the triangle, and find the total number of degrees in the three angles of each triangle.

4. Take a line AB of length 35 millimetres, and with centres A and B, and radii 45 and 50 millimetres respectively, describe portions of circles, so that they intersect at C. Join CA and CB. We have thus a triangle CAB whose sides are unequal, called a scalene triangle.



Construct the following triangles:

With sides 3, 5 and 6 inches. With sides 70, 80 and 100 millimetres. With sides $3\frac{1}{2}$, $4\frac{1}{2}$ and $2\frac{1}{2}$ inches.

With the bevel lay off three angles adjacent to one another, equal to the angles of each triangle, in the way indicated in the adjacent figure; and determine the positions of the initial and final lines, LM, LK, with respect to one another.

