Triangulation Defined
A method of finding a distance or location of an object by measuring the distance between two points whose exact location is known and then measuring the angles between each point and a third unknown point.

In this example, to determine the location of an existing tree in your yard so that you can place it on your plan, measure from point A (the corner of the house) to point C (the location of the tree), and from point B (another corner of the house) to point C. Next, with an architect's ruler using the 1/8" or 1/4" scale, take the first measurment from A to C (35 ft.) and open the compass for that distance. Place the metal point of the compass at point A and rotate the end of the compass with the pencil led to create an arch in the approximate location of the tree. Repeat this for the distance from point B to C (25 ft.). Where the two arches cross is the specific location of the tree.

TRIANGULATION

$35^{\underline{0}}$ ← \
FROM A TO C

$25^{\underline{0}}$ →
FROM B TO C

ACTUAL LOCATION
OF TREE