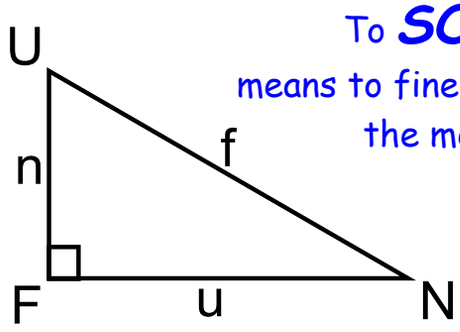
Solving Right Triangles

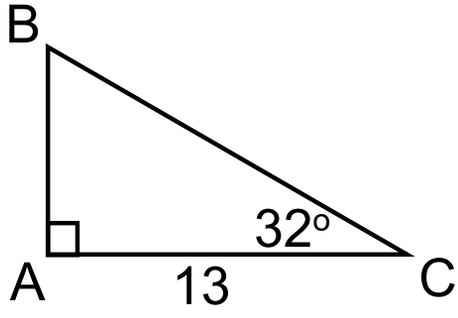


To ***SOLVE A TRIANGLE***
means to fine the lengths of all missing sides and the measures of all missing angles.

To ***SOLVE A RIGHT TRIANGLE*** use:

* the sum of the angles in a triangle is 180°
* Trig Ratios - SOH CAH TOA (preferred)
*Pythagorean Theorem (for checking ONLY!)

Example 1:

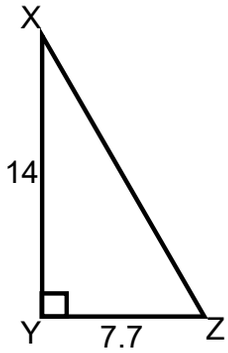


A = a =

B = b =

C = c =

Example 2:



X = x =

Y = y =

Z = z =

Example 3:

Solve triangle BAT given that angle A is the right angle, side b = 5 and side t = 12.

B = b =

A = a =

T = t =