6.3 Solve practical, simple problems using appropriate trigonometric formulae and terminology, including the sine, cosine and tangent ratios for right angled triangles, area of triangle=1/2absin C, Sine Rule, Cosine Rule

**Working with right angled triangles**



**The Pythagorean Theorem**

If a and b are the lengths of the legs of a right triangle and c is the length of the hypotenuse, then the sum of the squares of the lengths of the legs is equal to the square of the length of the hypotenuse.

**Solving triangles**



Therefore x=6

**Solving triangles using trigonometry**

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**We can find all the angles and lengths of the sides of a triangle using the formula above.**

**Exercise**

* Calculate the size of each angle for each of the following
* Find the length of side of the triangle in the following



