

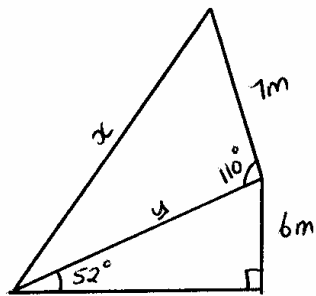
Using all Formulas to Solve Problems

The order in which you should attempt triangle problems is:-

1. Pythagoras
2. Trigonometry use these two for right angled triangles
3. Sine Rule
4. Cosine Rule use these two for **non** right angled triangles

Remember also your angle facts such as angles in a triangle equal 180°

Example 1. Find the size of length x

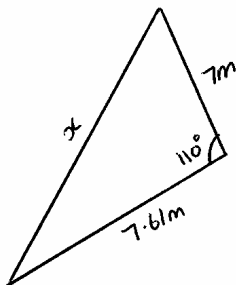
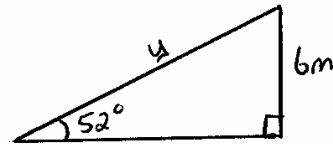


using $\sin \theta = \frac{opp}{hyp}$

$$\sin = \frac{6}{y}$$

$$y = \frac{6}{\sin 52}$$

$$y = 7.61cm$$



$$a^2 = b^2 + c^2 - (2bc \cos A)$$

$$x^2 = 7^2 + 7.61^2 - (2 \times 7 \times 7.61 \times \cos 110)$$

$$x^2 = 143.35$$

$$x = 11.97m \text{ (2dp)}$$