

GCSE Maths – Geometry and Measures

Sine and Cosine Rules and Area of a Triangle (Higher Only)

Worksheet

NOTES



SOLUTIONS

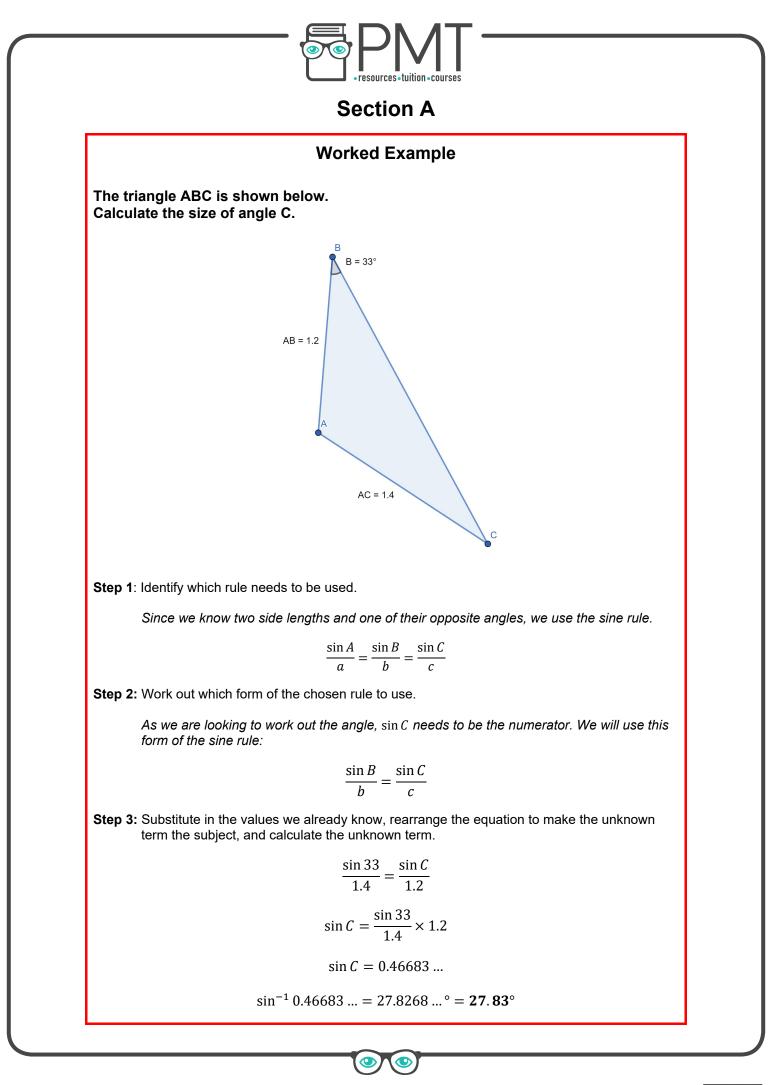


This worksheet will show you how to work out different types of questions relating to the sine and cosine rules and area of a triangle. Each section contains a worked example, a question with hints and then questions for you to work through on your own.

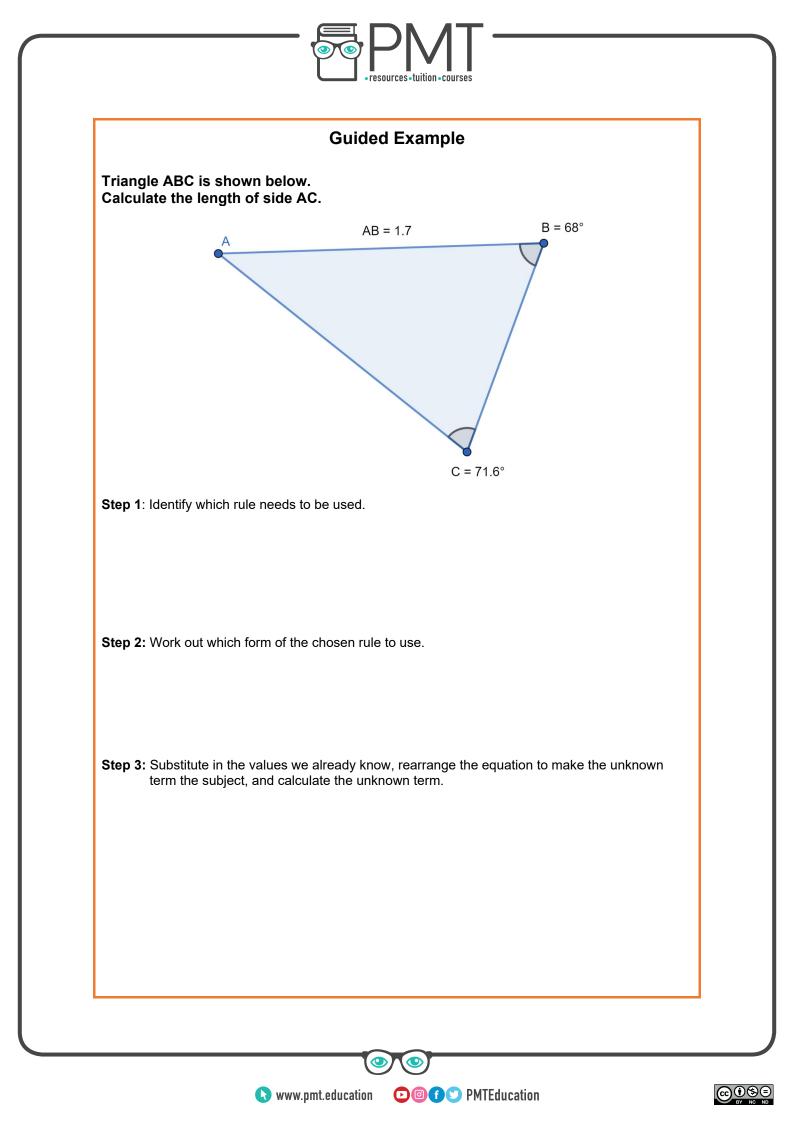
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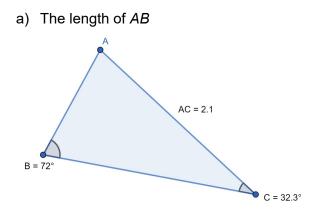
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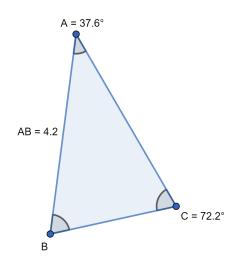


Now it's your turn! If you get stuck, look back at the worked and guided examples.

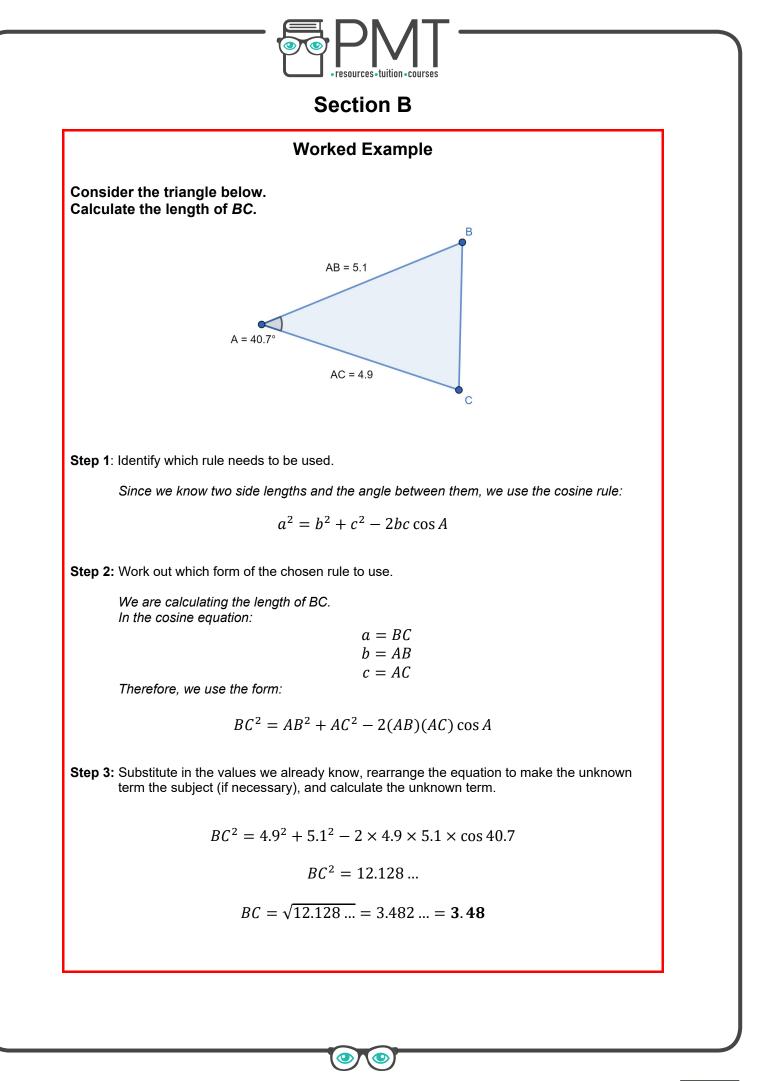
1. Calculate the following using the triangles shown below:



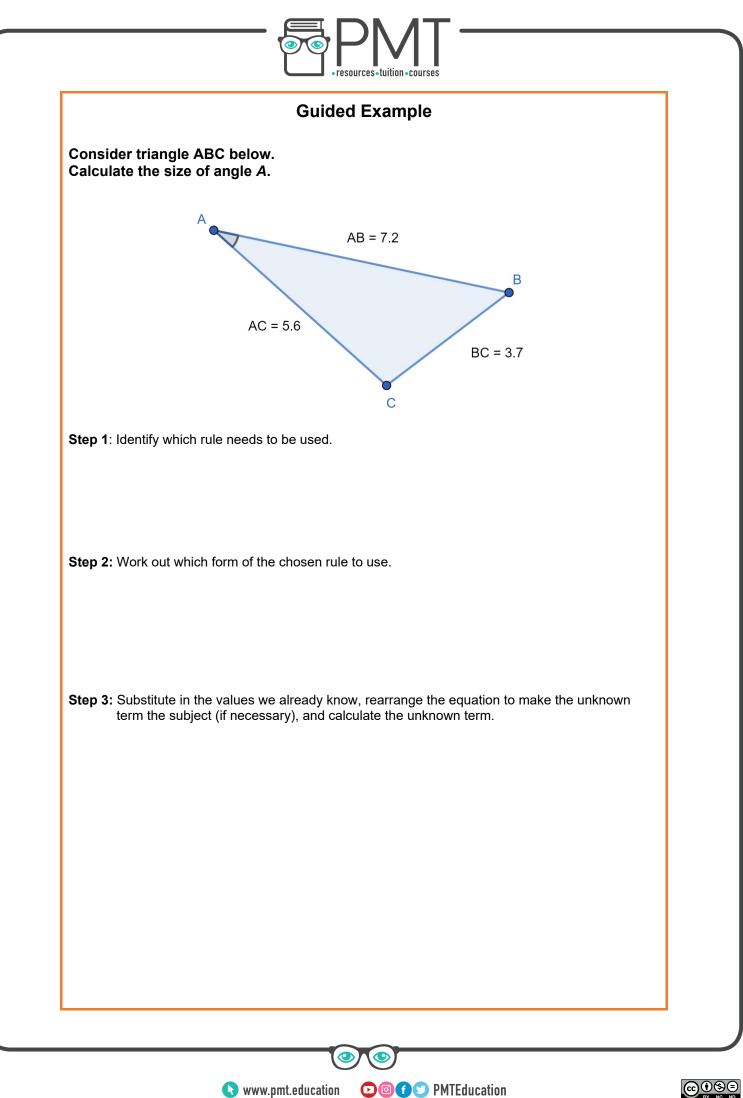
b) The length of AC







location www.pmt.education



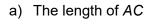
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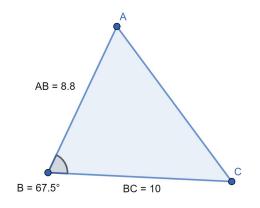


Now it's your turn!

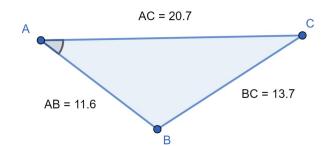
If you get stuck, look back at the worked and guided examples.

2. Calculate the following using the triangles shown below:





b) The size of angle A

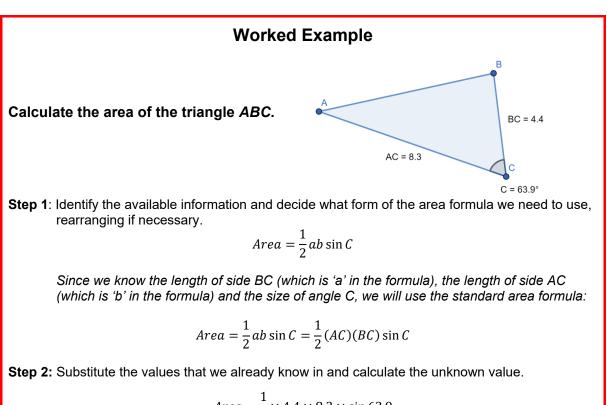


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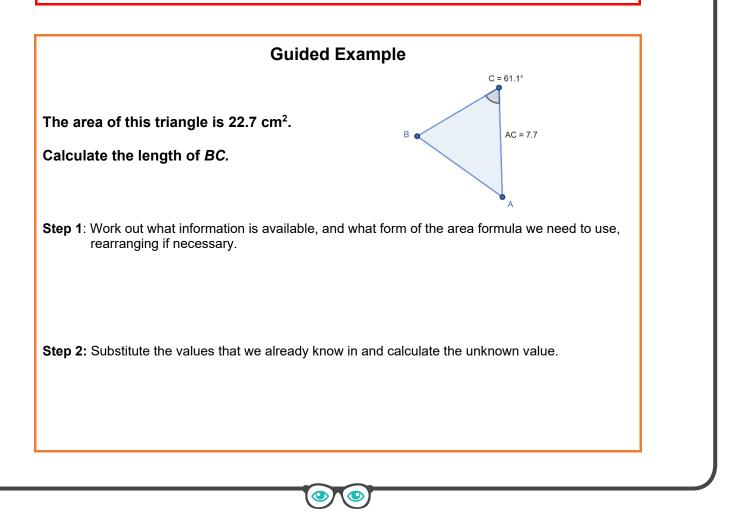
▶ Image: Second Second



Section C



$$Area = \frac{1}{2} \times 4.4 \times 8.3 \times \sin 63.9$$
$$Area = 16.397 \dots = 16.40 \text{ units}^2 (2 \text{ d. p.})$$



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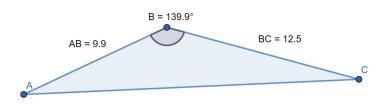
Network www.pmt.education



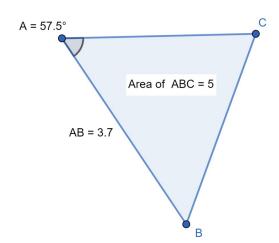
Now it's your turn!

If you get stuck, look back at the worked and guided examples.

- 3. Calculate the following using the triangles shown below:
 - a) The area of this triangle



b) The length of AC



0

▶ Image: Second Second

