

GCSE Maths – Geometry and Measures

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

Worksheet

WORKED 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.

This work by <u>PMT Education</u> is licensed under <u>CC BY-NC-ND 4.0</u>

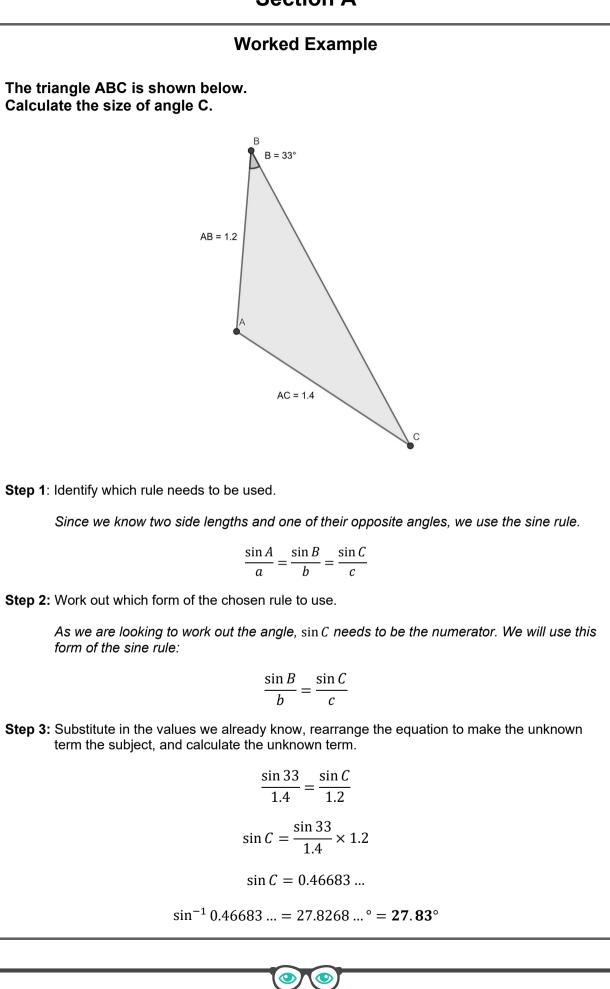






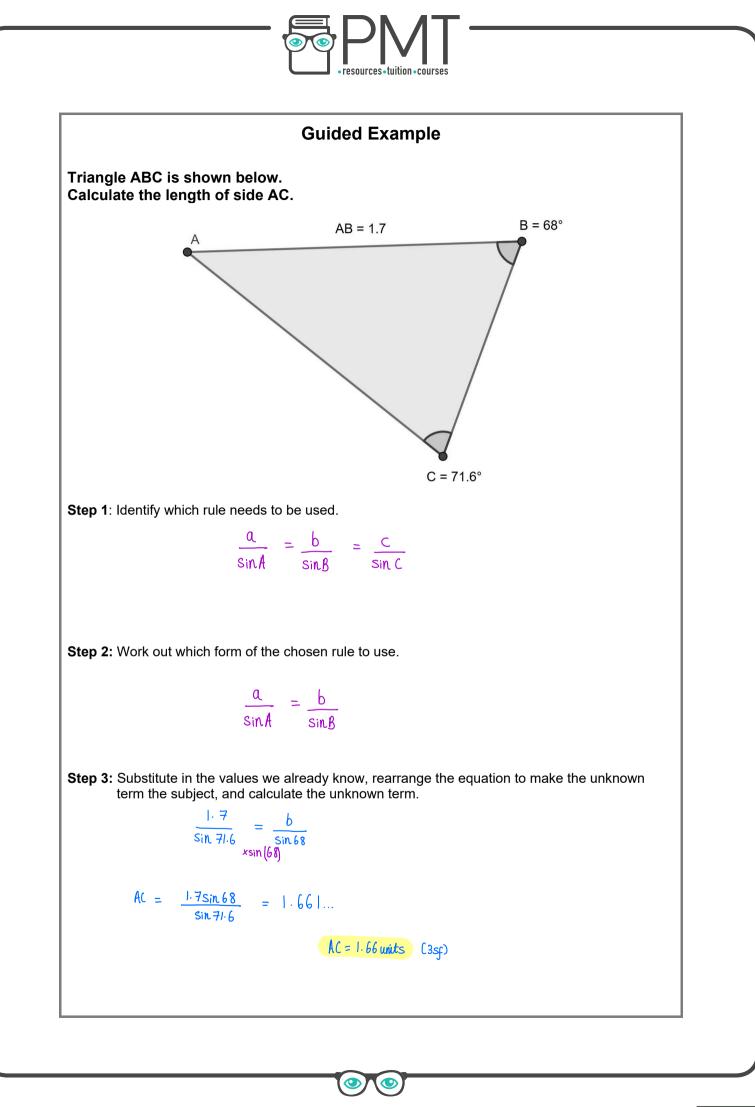


Section A



www.pmt.education

D O



🕟 www.pmt.education

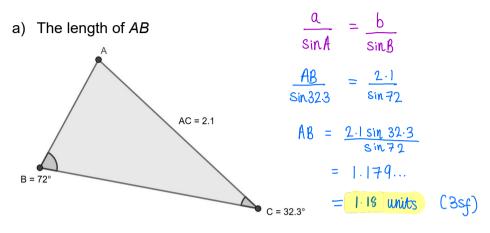
▶ Image: Contraction PMTEducation



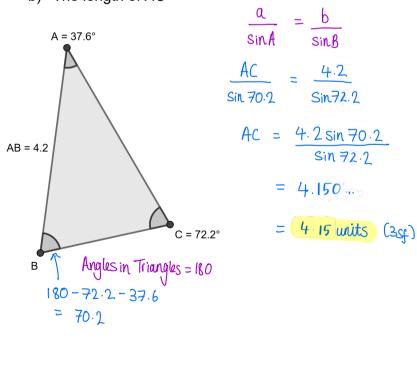
Now it's your turn!

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

1. Calculate the following using the triangles shown below:



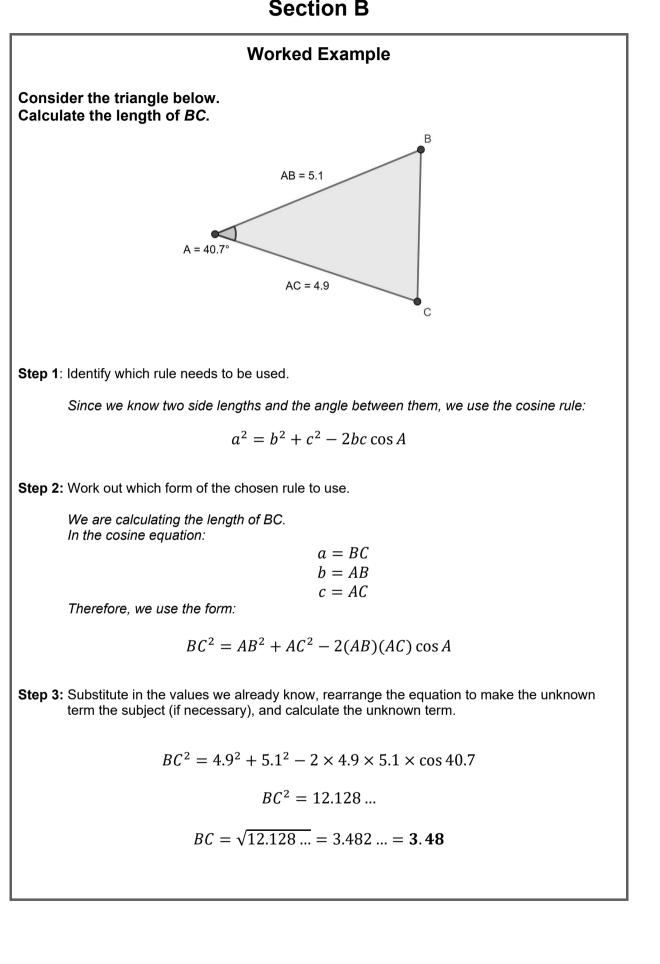
b) The length of AC



▶ Image: Contraction PMTEducation



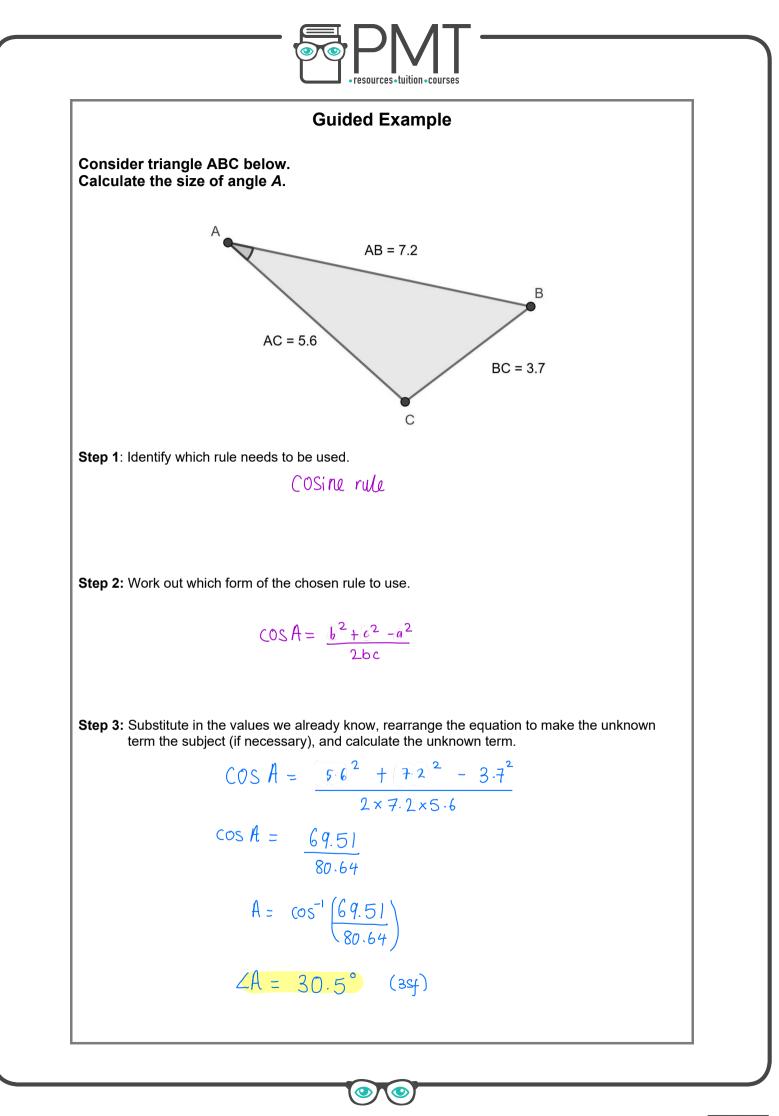
Section B



www.pmt.education

▶ Image: Contraction PMTEducation





www.pmt.education

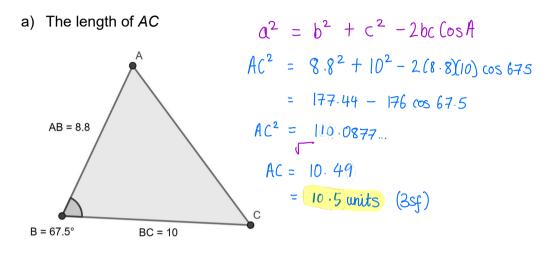
D O



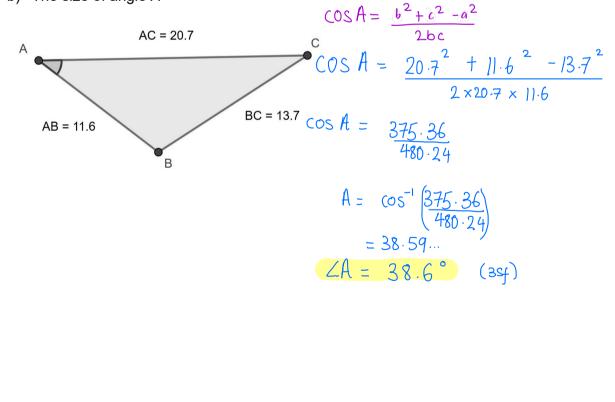
Now it's your turn!

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

2. Calculate the following using the triangles shown below:



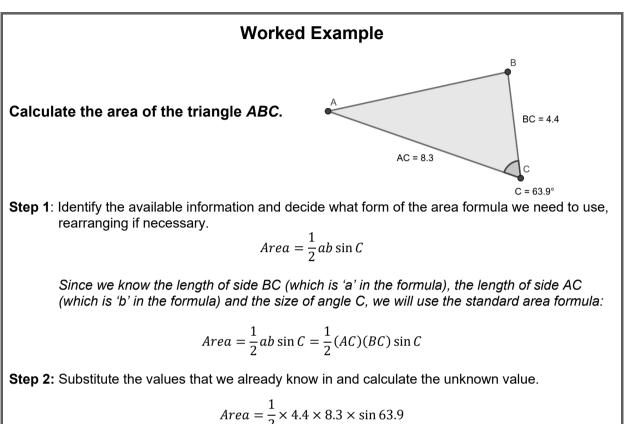
b) The size of angle A

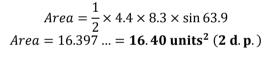


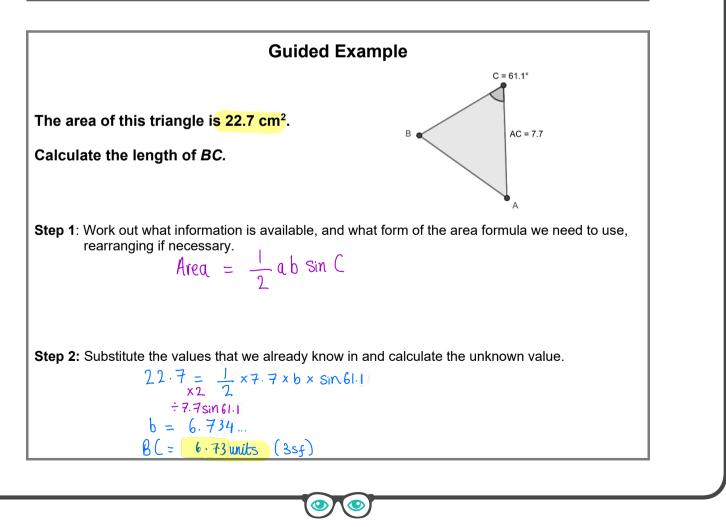
D O



Section C







www.pmt.education

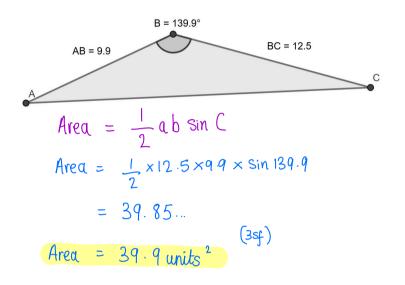




Now it's your turn!

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

