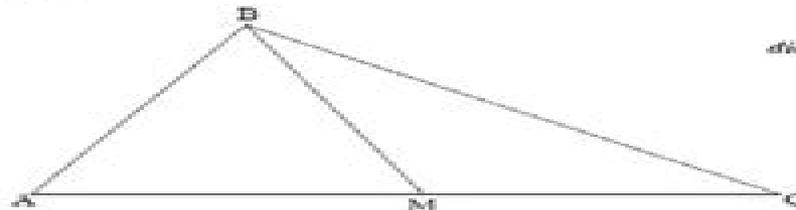# IB Math Studies – Triangle Trigonometry Practice Key

[233 marks]

The diagram shows a triangle ABC in which AC = 17 cm. M is the midpoint of AC.
Triangle ABM is equilateral.

diagram not to scale

1a. Write down the size of angle MCB. *[1 mark]*

Markscheme
30°   *(A1)*   *(C3)*

[1 mark]

Examiners report
Part (a) was generally well answered with many candidates gaining full marks. Some candidates went on to make incorrect assumptions about triangle BMC being right angled and used Pythagoras theorem incorrectly. Those who used either the Sine rule or the Cosine rule correctly were generally able to substitute correctly and gain at least two marks.

1b. Write down the length of BM in cm. *[1 mark]*

Markscheme
8.5 (cm)   *(A1)*

[1 mark]

Examiners report
Part (a) was generally well answered with many candidates gaining full marks. Some candidates went on to make incorrect assumptions about triangle BMC being right angled and used Pythagoras theorem incorrectly. Those who used either the Sine rule or the Cosine rule correctly were generally able to substitute correctly and gain at least two marks.

1c. Write down the size of angle BMC. *[1 mark]*

Markscheme
120°   *(A1)*

[1 mark]

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S Ashworth

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the formulas associated with them is quite handy   **Elements of Geometry and Trigonometry** Adrien Marie Legendre,1830   **Key to Trigonometry for Beginners. ... New edition** Isaac TODHUNTER,1876   <u>Trigonometry the Easy Way</u> Douglas Downing,1984 Explains the principles of trigonometry and includes practice exercises with answers   **Trigonometry for the Practical Worker** James Edgar Thompson,1982   **Introduction to Trigonometry** Allyn J. Washington,1975

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