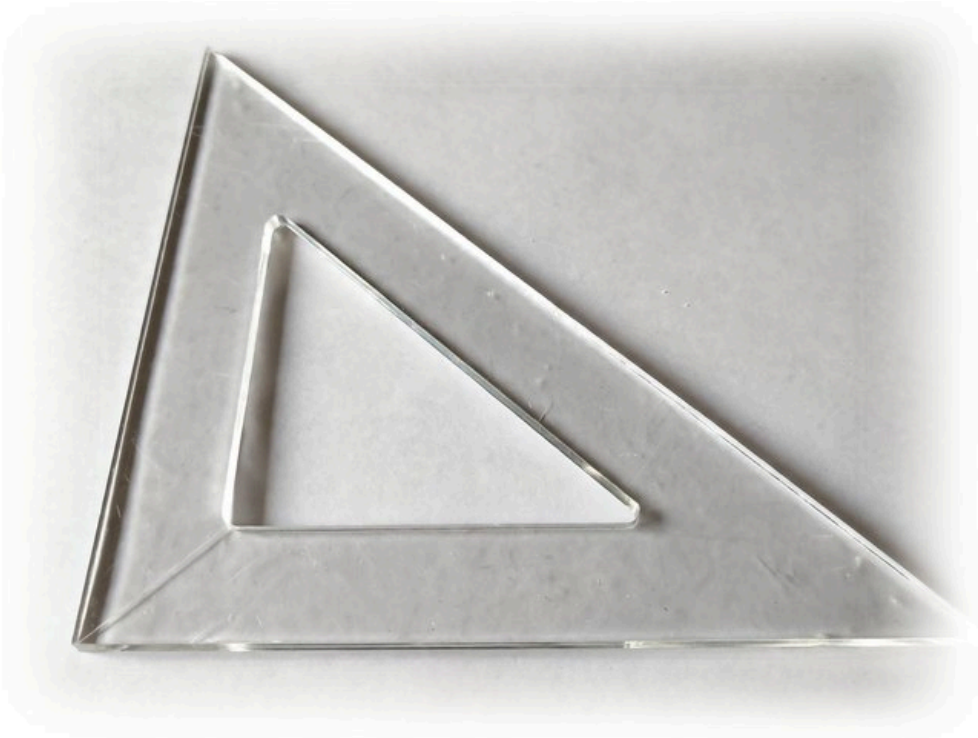
BRITISH COLUMBIA FOUNDATIONS OF MATHEMATICS 11 (MFOM-11) · UNIT C · 5 QUESTIONS

Trigonometry and Optimization — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **Clear plastic triangular set square ruler lies flat on a plain white surface, straight edges and right angle visible, no people. In a right triangle, an angle measures 45° and the hypotenuse is 10. The side opposite the angle, to one decimal place, is about**



A 7.1

B 5.0

C 10.0

D 14.1

Understand It with Pulse | Flag a mistake

2 **A right triangle has legs 9 and 12. The hypotenuse is**

- A 3
- B 15
- C 21
- D 108

Understand It with Pulse | Flag a mistake

3 **In a triangle, angle A measures 40°, side a = 10, and angle B measures 70°. Side b, to one decimal place, is about**

- A 7.0
- B 20.0
- C 14.6
- D 10.0

Understand It with Pulse | Flag a mistake

4 **In a triangle, two sides measure 6 and 8 with included angle 90°. The third side is**

- A 2
- B 48
- C 14
- D 10

Understand It with Pulse | Flag a mistake

5 **Two numbers have sum 16. Their maximum possible product is**

- A 64
- B 128
- C 32
- D 256

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ANSWER KEY

1. A
2. B
3. C
4. D
5. A

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