NEWFOUNDLAND AND LABRADOR MATHEMATICS 2200 · UNIT A · 5 QUESTIONS

# Trigonometry — 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** **Think about the idea. Which statement about the sine law is true for any triangle?**

- A It relates each side to the sine of its opposite angle
- B It applies only to right triangles
- C It uses only the longest side
- D It gives the area directly

Understand It with Pulse | Flag a mistake

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

- A 17
- B 13
- C 19
- D 15

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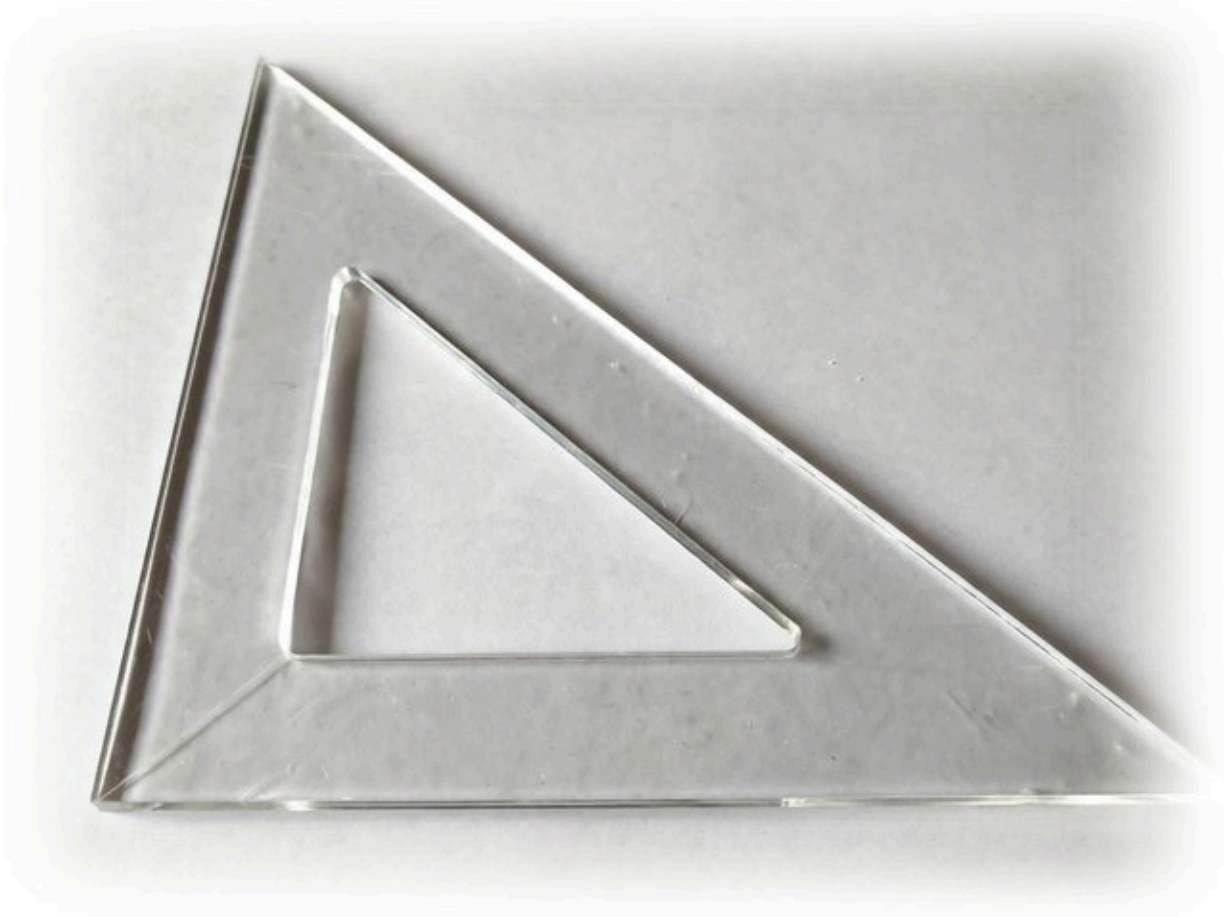
3 **Clear plastic triangular set square ruler lies flat on a plain white surface, straight edges and right angle visible, no people. Apply the idea. In a right triangle, the tangent of an acute angle equals**



A adjacent side ÷ opposite side

B hypotenuse ÷ opposite side

C opposite side ÷ adjacent side

D opposite side ÷ hypotenuse

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4 **A balloon is 24 m above the ground. From an observer, the angle of elevation is 60°. The horizontal distance to the point below the balloon, to one decimal place, in metres, is**

ANSWER _____

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5 **A triangle has sides 5, 6, and 7. The angle opposite the side of length 7, to the nearest degree, is**

ANSWER _____

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## ANSWER KEY

1. A
2. D
3. C
4. 13.9
5. 78

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