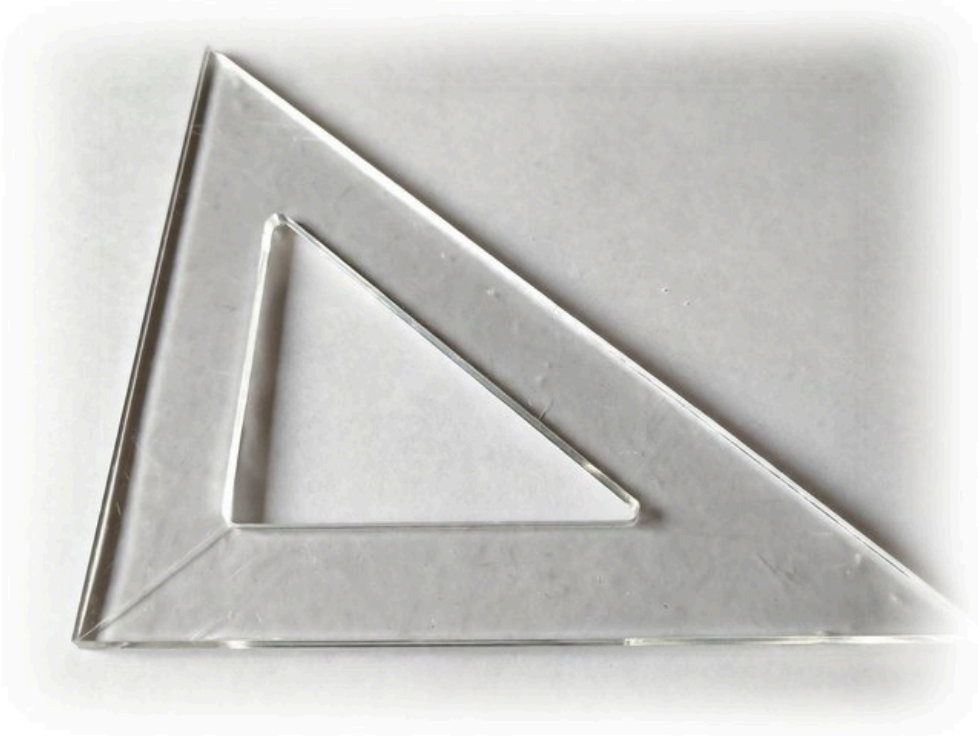
ILLINOIS GEOMETRY · UNIT 3 · 5 QUESTIONS

Trigonometry and Measurement — 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 **A clear plastic triangular set square ruler lies flat on a plain white surface. In a right triangle, the side opposite an acute angle is 8 and the hypotenuse is 10. The sine of the angle is**



A 0.6

B 0.8

C 1.25

D 0.75

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2 In a right triangle, the side opposite an acute angle is 12 and the adjacent side is 5. The tangent of the angle is

- **A** $\frac{5}{12}$
- **B** $\frac{5}{13}$
- **C** $\frac{12}{5}$
- **D** $\frac{12}{13}$

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3 In a right triangle, an angle measures 60° and the adjacent side is 4. The hypotenuse is

- **A** 2
- **B** 6.9
- **C** 8
- **D** 4

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4 **In a right triangle, an angle measures 30° and the hypotenuse is 14. The opposite side is**

- A 7
- B 14
- C 12.1
- D 3.5

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5 **In a right triangle, the side adjacent to an acute angle is 4 and the hypotenuse is 8. The angle measures**

- A 30°
- B 60°
- C 45°
- D 90°

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ANSWER KEY

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

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