ALBERTA MATH 10C · UNIT 1 · 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 **In a right triangle, the side adjacent to angle θ is 12 cm and the hypotenuse is 15 cm. The value of cosθ is**

- **A** $\frac{4}{5}$
- **B** $\frac{3}{5}$
- **C** $\frac{5}{4}$
- **D** $\frac{3}{4}$

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2 The right triangle ABC shown has legs of length 20 cm and 21 cm and a hypotenuse of length 29 cm. The value of tan A is

- **A** $\frac{21}{20}$
- **B** $\frac{20}{29}$
- **C** $\frac{20}{21}$
- **D** $\frac{29}{20}$

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3 A right triangle has a hypotenuse of 26 m and an acute angle of 65°. The length of the side adjacent to the 65° angle, to the nearest tenth of a metre, is

- **A** 23.6 m
- **B** 11.0 m
- **C** 28.7 m
- **D** 13.0 m

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4 **The angle of depression of an object, as seen from a point above it, is**

- **A** The angle between the line of sight and the vertical
- **B** The angle measured downward from the horizontal to the line of sight
- **C** The angle measured upward from the horizontal to the line of sight
- **D** The angle between the line of sight and the object

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5 **In a right triangle, the hypotenuse is 18 cm and the side opposite angle θ is 12 cm. The measure of angle θ, to the nearest tenth of a degree, is ____°**

ANSWER _____

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ANSWER KEY

1. A
2. C
3. B
4. B
5. 41.8

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