ALBERTA MATH 20-1 · UNIT 2 · 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** **The point (-5, 12) lies on the terminal arm of an angle θ in standard position. The exact value of tanθ is**

A $-\frac{12}{5}$

B $-\frac{5}{12}$

C $\frac{12}{13}$

D $-\frac{12}{13}$

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**2** **The exact value of tan 60° cos 30° is**

- **A** $\frac{1}{2}$
- **B** $\frac{3}{2}$
- **C** $\sqrt{3}$
- **D** 3

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**3** **In the right triangle ABC shown, angle B measures 65° and the side opposite angle B measures 18 cm. The length of the hypotenuse, to the nearest tenth of a centimetre, is**

- **A** 16.3 cm
- **B** 19.9 cm
- **C** 7.6 cm
- **D** 21.4 cm

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4 **In △ ABC, ∠ A = 63°, ∠ C = 47°, and side c = 15 cm. The length of side a, to the nearest tenth of a centimetre, is ____**

ANSWER _____

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5 **Tall weather radar tower with a large white spherical radome on top of a steel lattice tower, against a clear bright blue sky with a few thin clouds, seen from a low angle, sharp focus, no people, no text. A fire tower is 30 m tall. From the top of the tower, the angle of depression of a campfire is 41°. The distance from the base of the tower to the campfire, to the nearest metre, is**



A 26 m

B 46 m

C 35 m

D 23 m

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# ANSWER KEY

1. A
2. B
3. B
4. 18.3
5. C

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