ALBERTA MATH 20-3 · UNIT 2 · 5 QUESTIONS

Trigonometry, Scale and 3-D Objects — 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 the right triangle shown, the legs are 7 cm and 10 cm. The measure of the acute angle at B, to the nearest tenth of a degree, is**

- A 35.0°
- B 44.4°
- C 55.0°
- D 81.4°

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2 **Wooden extension ladder leaning at a steep angle against a plain white house wall, ladder large in frame, clear blue sky. A ladder 10 ft long leans against a house, making an angle of 70° with the ground. The height it reaches, to the nearest tenth, is**



A 3.4 ft

B 9.4 ft

C 10.0 ft

D 27.5 ft

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3 **A plan is drawn to a scale of 1:50. A deck measures 12 cm on the plan. The actual length of the deck is**

- A 0.24 m
- B 2.4 m
- C 6.0 m
- D 60 m

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4 **A square garden plot is redrawn with each side doubled, a linear scale factor of 2. The new area is how many times the original area?**

- A 2
- B 6
- C 8
- D 4

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5

A water bottle is a cylinder standing upright on a desk. Which description matches the view from directly above the bottle?

A. A circle

B. A tall rectangle

C. A triangle

D. A long thin rectangle

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ANSWER KEY

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

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