NUNAVUT MATH 30-3 · UNIT 2 · 5 QUESTIONS

Trigonometry with the Sine and Cosine Laws — 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 triangular bracket for a deck has angles A = 55° and B = 75° . Side a , opposite angle A , is 4.2 m. The length of side b , to the nearest tenth of a metre, is**

- A 5.0 m
- B 3.6 m
- C 3.9 m
- D 5.3 m

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2 **Triangle ABC is shown. Two support arms of a conveyor are 4 ft and 6 ft long and meet at an angle of 70° . The distance between their free ends, to the nearest tenth of a foot, is**

A 8.3 ft

B 6.0 ft

C 7.2 ft

D 3.6 ft

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3 **In the triangular end of a greenhouse, angle A = 58° , side a = 15 m (opposite A), and side b = 10 m (opposite B). The measure of angle B , to the nearest tenth of a degree, is**

A 145.6°

B 38.7°

C 34.4°

D 20.7°

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4 **Long shiny metal wrench turning a large steel bolt and nut, side view, large in frame. A triangular steel frame has sides of 6 m, 10 m, and 13 m. The angle opposite the 13 m side, to the nearest tenth of a degree, is**



A 47.7°

B 26.3°

C 74.0°

D 106.0°

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5 **Surveyors at points A and B on the shore of a pond are 45 m apart. A rock, C , is in the pond. In triangle ABC , the angle at A is 63° and the angle at B is 40° . The distance from B to the rock, to the nearest tenth of a metre, is**

A 41.1 m

B 29.7 m

C 49.2 m

D 43.6 m

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ANSWER KEY

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

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