NUNAVUT MATH 20-2 · UNIT 4

Trigonometry — Practice Test

Nunavut Math 20-2 • 10 questions

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 **Two sides of a triangle are 10 cm and 14 cm, and the angle between them is 63°. The length of the third side, to the nearest tenth of a centimetre, is**

- A 13.0 cm
- B 17.2 cm
- C 20.6 cm
- D 11.4 cm

Understand It with Pulse | Flag a mistake

2 **A hot-air balloon is 80 m directly above the ground. From the balloon, the angle of depression to a landing marker is 17°. The horizontal distance, in metres to the nearest tenth, from the point below the balloon to the marker is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 A triangle has two sides of 7 cm and 18 cm with an included angle of 39°. The area of the triangle, to the nearest tenth of a cm², is

- A 49.0 cm²
- B 39.6 cm²
- C 79.3 cm²
- D 63.0 cm²

Understand It with Pulse | Flag a mistake

4 Triangle ABC is shown. AB = 9 cm, AC = 6 cm, and BC = 12 cm. The measure of the angle opposite BC, to the nearest tenth of a degree, is

- A 75.5°
- B 97.2°
- C 82.8°
- D 104.5°

Understand It with Pulse | Flag a mistake

5 In △ ABC, ∠ A = 29°, ∠ B = 74°, and side a = 9 cm. The length of side b, in centimetres to the nearest tenth, is _____

ANSWER _____

Understand It with Pulse | Flag a mistake

6 In △ ABC, ∠ A = 40°, side a = 6 cm, and side b = 14 cm. The number of different triangles that can be drawn with these measurements is

A 0

B 1

C 2

D 3

Understand It with Pulse | Flag a mistake

7 **A triangular garden plot has two sides of 8 m and 11 m meeting at an angle of 95°. The length of the third side, to the nearest tenth of a metre, is**

- A 13.0 m
- B 13.6 m
- C 14.2 m
- D 19.0 m

Understand It with Pulse | Flag a mistake

8 **A person whose eyes are 1.7 m above the ground stands 30 m from a building. The angle of elevation from eye level to the top of the building is 36°. The height of the building, to the nearest tenth of a metre, is**

- A 21.8 m
- B 17.6 m
- C 23.5 m
- D 25.2 m

Understand It with Pulse | Flag a mistake

9 In △ ABC, ∠ A = 102°, ∠ B = 31°, and side a = 28 cm. The length of side b, to the nearest tenth of a centimetre, is

- **A** 14.7 cm
- **B** 53.2 cm
- **C** 16.9 cm
- **D** 12.3 cm

Understand It with Pulse | Flag a mistake

10 Points A and B on the shore of a pond are 40 m apart. A tree T stands on the far shore. At A, the angle between B and T is 58°, and at B, the angle between A and T is 71°. The distance, in metres to the nearest tenth, from A to the tree is _____

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	A	**5.**	17.8	**9.**	A
2.	261.7	**6.**	A	**10.**	48.7
3.	B	**7.**	C		
4.	D	**8.**	C		

© 2026 Brett Robbins. All Rights Reserved.