ONTARIO PRINCIPLES OF MATHEMATICS, GRADE 10, ACADEMIC (MPM2D) · UNIT D · 10 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 triangle ABC shown, side CA has length 6 and side CB has length 8, with an included angle of 90 degrees at C. The length of side AB is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **In a triangle, two sides have lengths 5 and 12 with an included angle of 90 degrees. The length of the side opposite the included angle is**

ANSWER _____

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3 **A triangle has sides of length 5, 8 and 7. The measure, in degrees, of the angle opposite the side of length 7 is**

A 60°

B 30°

C 90°

D 120°

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4 **A triangle has sides of length 3, 4 and 5. The measure, in degrees, of the angle opposite the side of length 5 is**

ANSWER _____

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5 **A triangle has sides of length 3, 5 and 7. The measure, in degrees, of the angle opposite the side of length 7 is**

ANSWER _____

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6 **A ladder 10 metres long leans against a wall, making an angle of 30 degrees with the ground. The height, in metres, reached by the top of the ladder is**

- A 10
- B 8
- C 3
- D 5

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7 **A ladder 12 metres long leans against a wall, making an angle of 60 degrees with the ground. The distance, in metres, from the foot of the ladder to the wall is**

ANSWER _____

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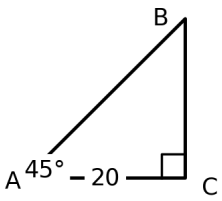
8 **The diagram shows a tree at B , an observer at A , and the foot of the tree at C . The distance from A to C and the angle of elevation at A are labelled in the diagram. The height of the tree, in metres, is**



- **A** 10
- **B** 20
- **C** 30
- **D** 40

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9 **A tree is 12 metres tall. An observer stands 12 metres from the tree. The angle of elevation to the top of the tree, in degrees, is**

ANSWER _____

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10 **Two similar triangles have corresponding sides in the ratio 1 to 3. The smaller triangle has area 12 units². The area, in units², of the larger triangle is**

ANSWER

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ANSWER KEY

1. 10
2. 13
3. A
4. 90
5. 120
6. D
7. 6
8. B
9. 45
10. 108

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