QUEBEC MATHEMATICS, CULTURAL, SOCIAL AND TECHNICAL OPTION, SECONDARY V · UNIT C

Geometry — Practice Test

Quebec Mathematics, Cultural, Social and Technical Option, Secondary V • 25 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 **An observer 23 metres from a tower sees its top at 45 degrees. The tower height in metres is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Two sides of length 13 meet at 60 degrees. By the cosine law the third side is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A right triangle has hypotenuse 40 and one leg 24. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **Two angles of a triangle are 93 degrees and 38 degrees. The third angle in degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A circle has radius 4. Using pi=3.14 its area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A vector has components 3 and 4. Its magnitude is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A rectangle has length 14 and width 6. Its area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **In a right triangle with adjacent 9 hypotenuse 15 the cosine of the angle is**

- A 0.6
- B 0.8
- C 0.75
- D 1.25

Understand It with Pulse | Flag a mistake

9 **The x coordinate of the midpoint of (9,4) and (17,10) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **A circle has radius 13. Using pi=3.14 its area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **A straight angle is split into 38 degrees and another angle. The other angle in degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **The tangent of 60 degrees is**

A 1.73

B 1

C 0.5

D 0

Understand It with Pulse | Flag a mistake

13 **A rectangle has length 23 and width 9. Its perimeter is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **A rectangle has length 14 and width 6. Its perimeter is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **A straight angle is split into 58 degrees and another angle. The other angle in degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **Two triangles are similar with a scale factor of 3. A side of length 12 in the smaller triangle has length in the larger triangle**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **Triangle ABC is right angled at A with AB=12 and AC=16. The length of BC is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **A rectangle has length 12 and width 9. Its area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **A straight angle is split into 43 degrees and another angle. The other angle in degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A sector of a circle of radius 23 has an angle of 90 degrees. Using pi=3.14 its area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A rectangle has length 12 and width 9. Its perimeter is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **Two triangles are similar with a scale factor of 5. A side of length 18 in the smaller triangle has length in the larger triangle**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **The distance between (5,1) and (8,5) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **Triangle ABC is right angled at A with AB=15 and AC=20. The length of BC is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A vector has components 6 and 8. Its magnitude is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 23
2. 13
3. 32
4. 49
5. 50.24
6. 5
7. 84
8. A
9. 13
10. 530.66
11. 142
12. A
13. 64
14. 40
15. 122
16. 36
17. 20
18. 108
19. 137
20. 415.26
21. 42
22. 90
23. 5
24. 25
25. 10

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