MANITOBA ESSENTIAL MATHEMATICS 30S · UNIT F · 25 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 **A right triangle has hypotenuse 13 and one leg 5. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **The right triangle has legs 32 and 60 as labelled. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **In a right triangle with adjacent 4 and hypotenuse 5, the ratio is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **The value of cos 60 degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A ladder reaches a wall forming a right triangle with base 16 and height 30. The ladder length is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A right triangle has legs 8 and 15. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A right triangle has hypotenuse 100 and one leg 28. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **The right triangle has legs 12 and 16 as labelled. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **In a right triangle with opposite 4 and hypotenuse 5, the ratio is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **The value of tan 45 degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **A ladder reaches a wall forming a right triangle with base 12 and height 16. The ladder length is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **A right triangle has legs 3 and 4. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **A right triangle has hypotenuse 52 and one leg 20. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **The right triangle has legs 24 and 45 as labelled. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **A right triangle has legs 16 and 30. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **The longest side of a right triangle is the**

A adjacent

B hypotenuse

C opposite

D leg

Understand It with Pulse | Flag a mistake

17 **In a right triangle, the side opposite the right angle is the**

A adjacent

B opposite side

C hypotenuse

D base

Understand It with Pulse | Flag a mistake

18 **The sum of the interior angles of a triangle is**

A 90 degrees

B 270 degrees

C 360 degrees

D 180 degrees

Understand It with Pulse | Flag a mistake

19 **The sum of the interior angles of a quadrilateral is**

A 360 degrees

B 180 degrees

C 270 degrees

D 540 degrees

Understand It with Pulse | Flag a mistake

20 **A polygon with five sides is a**

A hexagon

B pentagon

C octagon

D heptagon

Understand It with Pulse | Flag a mistake

21 **A polygon with six sides is a**

A pentagon

B octagon

C hexagon

D decagon

Understand It with Pulse | Flag a mistake

22 **A polygon with eight sides is an**

A hexagon

B pentagon

C decagon

D octagon

Understand It with Pulse | Flag a mistake

23 **The distance around a circle is the**

A circumference

B diameter

C radius

D area

Understand It with Pulse | Flag a mistake

24 **Half of the diameter of a circle is the**

A circumference

B radius

C chord

D arc

Understand It with Pulse | Flag a mistake

25 **The ratio of circumference to diameter is**

A two

B three

C pi

D the radius

Understand It with Pulse | Flag a mistake

# ANSWER KEY

| | | | | | |
|---|---|---|---|---|---|
| **1.** | 12 | **10.** | 1 | **19.** | A |
| **2.** | 68 | **11.** | 20 | **20.** | B |
| **3.** | 0.8 | **12.** | 5 | **21.** | C |
| **4.** | 0.5 | **13.** | 48 | **22.** | D |
| **5.** | 34 | **14.** | 51 | **23.** | A |
| **6.** | 17 | **15.** | 34 | **24.** | B |
| **7.** | 96 | **16.** | B | **25.** | C |
| **8.** | 20 | **17.** | C | | |
| **9.** | 0.8 | **18.** | D | | |

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