MANITOBA ESSENTIAL MATHEMATICS 20S · UNIT D · 25 QUESTIONS

Geometry and 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 legs 9 and 12. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A right triangle has hypotenuse 26 and one leg 10. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **The right triangle has legs 8 and 15 as labelled. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **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

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

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **A right triangle has hypotenuse 25 and one leg 7. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **The right triangle has legs 3 and 4 as labelled. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **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

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

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **A right triangle has hypotenuse 13 and one leg 5. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **The point where a graph crosses the x axis is the**

A y intercept

B vertex

C origin

D x intercept

Understand It with Pulse | Flag a mistake

17 **The highest or lowest point of a parabola is the**

A vertex

B intercept

C axis

D root

Understand It with Pulse | Flag a mistake

18 **The line that divides a parabola into two equal halves is the**

A directrix

B axis of symmetry

C asymptote

D tangent

Understand It with Pulse | Flag a mistake

19 **A triangle with all sides equal is**

A isosceles

B scalene

C equilateral

D right

Understand It with Pulse | Flag a mistake

20 **A triangle with two sides equal is**

A equilateral

B scalene

C obtuse

D isosceles

Understand It with Pulse | Flag a mistake

21 **A triangle with no sides equal is**

A scalene

B isosceles

C equilateral

D right

Understand It with Pulse | Flag a mistake

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

A adjacent

B hypotenuse

C opposite

D leg

Understand It with Pulse | Flag a mistake

23 **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

24 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

25 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

ANSWER KEY

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

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