MANITOBA APPLIED MATHEMATICS 30S · UNIT D · 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 100 and one leg 28. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **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

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

ANSWER _____

Understand It with Pulse | Flag a mistake

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

A isosceles

B scalene

C equilateral

D right

Understand It with Pulse | Flag a mistake

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

A scalene

B isosceles

C equilateral

D right

Understand It with Pulse | Flag a mistake

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

A equilateral

B scalene

C obtuse

D isosceles

Understand It with Pulse | Flag a mistake

8 **An angle measuring 90 degrees is a**

A acute angle

B right angle

C obtuse angle

D straight angle

Understand It with Pulse | Flag a mistake

9 **An angle measuring less than 90 degrees is an**

A obtuse angle

B right angle

C acute angle

D reflex angle

Understand It with Pulse | Flag a mistake

10 **An angle measuring more than 90 degrees but less than 180 degrees is an**

A acute angle

B right angle

C reflex angle

D obtuse angle

Understand It with Pulse | Flag a mistake

11 **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

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

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **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

14 **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

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

A adjacent

B hypotenuse

C opposite

D leg

Understand It with Pulse | Flag a mistake

16 **The mean of a data set is also called the**

A average

B median

C mode

D range

Understand It with Pulse | Flag a mistake

17 **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

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

A pi

B two

C three

D the radius

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **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

23 In a right triangle with opposite 1 and hypotenuse 2, the ratio is

ANSWER _____

Understand It with Pulse | Flag a mistake

24 A right triangle has hypotenuse 15 and one leg 9. The other leg is

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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