MANITOBA INTRODUCTION TO APPLIED AND PRE-CALCULUS MATHEMATICS 20S · UNIT B · 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 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

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

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A right triangle has legs 3 and 4. Its hypotenuse 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 **The right triangle has legs 24 and 45 as labelled. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

A hexagon

B octagon

C pentagon

D decagon

Understand It with Pulse | Flag a mistake

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

A hexagon

B octagon

C heptagon

D pentagon

Understand It with Pulse | Flag a mistake

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

A hexagon

B pentagon

C octagon

D decagon

Understand It with Pulse | Flag a mistake

9

A straight line graph has a slope that is

A increasing

B constant

C zero always

D undefined always

Understand It with Pulse | Flag a mistake

10

A triangle with all sides equal is

A isosceles

B scalene

C equilateral

D right

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

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

A diameter

B radius

C circumference

D area

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 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

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

A x intercept

B vertex

C y intercept

D origin

Understand It with Pulse | Flag a mistake

17 **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

18 **A right triangle has hypotenuse 75 and one leg 21. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **A right triangle has legs 32 and 60. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **In a right triangle with opposite 3 and hypotenuse 5, the ratio is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **The right triangle has legs 9 and 12 as labelled. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A ladder reaches a wall forming a right triangle with base 28 and height 96. The ladder length is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A right triangle has hypotenuse 39 and one leg 15. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 20
2. 48
3. 5
4. 0.8
5. 51
6. B
7. D
8. A
9. B
10. C
11. 0.8
12. C
13. A
14. B
15. D
16. C
17. 34
18. 72
19. 68
20. 0.6
21. 15
22. 100
23. 36
24. 10
25. 0.5

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