MANITOBA PRE-CALCULUS MATHEMATICS 40S · UNIT A · 25 QUESTIONS

Trigonometry and the Unit Circle — 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 16 and height 30. The ladder length is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A right triangle has legs 32 and 60. 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 9 and 12 as labelled. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

A hexagon

B pentagon

C octagon

D heptagon

Understand It with Pulse | Flag a mistake

7 **A straight line graph has a slope that is**

A increasing

B zero always

C undefined always

D constant

Understand It with Pulse | Flag a mistake

8 **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

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

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **In the expression 3x plus 5, the letter x is the**

A coefficient

B constant

C variable

D term

Understand It with Pulse | Flag a mistake

11 **In the expression 3x plus 5, the number 3 is the**

A constant

B coefficient

C variable

D solution

Understand It with Pulse | Flag a mistake

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

A adjacent

B hypotenuse

C opposite

D leg

Understand It with Pulse | Flag a mistake

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

A y intercept

B x intercept

C vertex

D origin

Understand It with Pulse | Flag a mistake

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

A y intercept

B x intercept

C vertex

D origin

Understand It with Pulse | Flag a mistake

15 The slope of a horizontal line is

- A zero
- B one
- C undefined
- D negative

Understand It with Pulse | Flag a mistake

16 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

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

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **A right triangle has legs 12 and 16. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **The right triangle has legs 16 and 30 as labelled. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A ladder reaches a wall forming a right triangle with base 10 and height 24. The ladder length is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A right triangle has hypotenuse 50 and one leg 14. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **The right triangle has legs 5 and 12 as labelled. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 34
2. 72
3. 68
4. 0.8
5. 15
6. B
7. D
8. C
9. 0.8
10. C
11. B
12. B
13. B
14. A
15. A
16. 20
17. 36
18. 20
19. 0.5
20. 34
21. 26
22. 48
23. 17
24. 0.6
25. 13

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