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

Trigonometric Equations and Identities — 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 100 and one leg 28. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A right triangle has legs 8 and 15. 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 12 and 16 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 12 and height 16. The ladder length is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **The right triangle has legs 24 and 45 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 10 and height 24. The ladder length is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	34	**10.**	C	**19.**	5
2.	96	**11.**	0.8	**20.**	0.5
3.	17	**12.**	C	**21.**	51
4.	0.8	**13.**	A	**22.**	26
5.	20	**14.**	B	**23.**	72
6.	B	**15.**	D	**24.**	34
7.	D	**16.**	C	**25.**	0.6
8.	A	**17.**	20		
9.	B	**18.**	48		

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