PRINCE EDWARD ISLAND PRE-CALCULUS 12 · UNIT C · 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 13 and one leg 5. The other leg length is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A right triangle has legs 3 and 4. The hypotenuse length is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **An angle of 30 degrees converted to radians has a coefficient of pi equal to**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **The cosine of 180 degrees as a decimal is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A trigonometric equation can have**

A no solution ever

B only acute solutions

C infinitely many solutions

D at most one solution

Understand It with Pulse | Flag a mistake

6 **An angle in standard position with a terminal arm in quadrant 3 has a cosine value that is**

A undefined

B negative

C positive

D zero

Understand It with Pulse | Flag a mistake

7 **An angle in standard position with a terminal arm in quadrant 2 has a sine value that is**

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

Understand It with Pulse | Flag a mistake

8 **The amplitude of a sine graph is**

- A the midline value
- B half the distance from peak to trough
- C the period
- D the phase shift

Understand It with Pulse | Flag a mistake

9 **The amplitude of 4 cosine x is**

ANSWER

Understand It with Pulse | Flag a mistake

10 **The amplitude of 2 sine x plus 1 is**

ANSWER

Understand It with Pulse | Flag a mistake

11 **The cosine of 45 degrees as a decimal, rounded to four decimal places, is**

ANSWER

Understand It with Pulse | Flag a mistake

12 **The coterminal angle of -30 degrees between 0 and 360 degrees is**

- A 210 degrees
- B 330 degrees
- C 30 degrees
- D 150 degrees

Understand It with Pulse | Flag a mistake

13 **The equation $\sin x = \frac{1}{2}$ has a solution in quadrant 1 at**

- A 45 degrees
- B 90 degrees
- C 30 degrees
- D 60 degrees

Understand It with Pulse | Flag a mistake

14 **The identity sin² + cos² equals**

A 1

B 0

C 2

D sin × cos

Understand It with Pulse | Flag a mistake

15 **The period of cosine 3x in degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **The period of cosine x in radians is**

A pi

B π ÷ 2

C 4 pi

D 2 pi

Understand It with Pulse | Flag a mistake

17 **The period of sine 2x in degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **The reference angle for 150 degrees is**

A 30 degrees

B 150 degrees

C 60 degrees

D 120 degrees

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A right triangle has legs 5 and 12. The hypotenuse length is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **An angle of 60 degrees converted to radians has a coefficient of pi equal to**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **The cosine of 0 degrees as a decimal is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A right triangle has hypotenuse 17 and one leg 8. The other leg length is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A right triangle has legs 8 and 15. The hypotenuse length is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25

An angle of 90 degrees converted to radians has a coefficient of pi equal to

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 12
2. 5
3. 0.1667
4. -1
5. C
6. B
7. C
8. B
9. 4
10. 2
11. 0.7071
12. B
13. C
14. A
15. 120
16. D
17. 180
18. A
19. 24
20. 13
21. 0.3333
22. 1
23. 15
24. 17
25. 0.5

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