NEW BRUNSWICK PRE-CALCULUS A 120 · UNIT D · 25 QUESTIONS

Angles in Standard Position, Degrees and Radians, Unit Circle, and Trigonometric Ratios — 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 **For an angle of 30 degrees in standard position, cos of the angle to three decimal places is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **For an angle of 45 degrees in standard position, cos of the angle to three decimal places is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **In radians, 60 degrees is**

A π/3

B π/6

C π/4

D π/2

Understand It with Pulse | Flag a mistake

4 **In radians, 90 degrees is**

A π/6

B π/2

C π/4

D π/3

Understand It with Pulse | Flag a mistake

5 **In radians, 120 degrees is**

- A π/6
- B π/4
- C 2π/3
- D π/3

Understand It with Pulse | Flag a mistake

6 **An angle of 150 degrees is in the second quadrant. Its reference angle is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **The reference angle for 210 degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **An angle of 300 degrees has a reference angle of**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **The reference angle for an angle of 120 degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **The reference angle for an angle of 150 degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **The reference angle for an angle of 210 degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 The reference angle is always measured to the

- A x axis
- B y axis
- C origin
- D terminal side

Understand It with Pulse | Flag a mistake

13 An angle of 45 degrees in the first quadrant has a reference angle of

ANSWER _____

Understand It with Pulse | Flag a mistake

14 For an angle of 30 degrees in standard position, sin of the angle is

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **The sine of 90 degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **In a right triangle, the hypotenuse is 10 and the side opposite a 30 degree angle is 5. The sine of 30 degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **For an angle of 0 degrees in standard position, sin of the angle to three decimal places is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **For an angle of 30 degrees in standard position, sin of the angle to three decimal places is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **For an angle of 45 degrees in standard position, sin of the angle to three decimal places is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **The value of sin 0 degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **For an angle in the second quadrant, the sine is**

A positive

B negative

C zero

D undefined

Understand It with Pulse | Flag a mistake

22 **An angle of 180 degrees, in radians, is**

- **A** pi
- **B** π ÷ 2
- **C** 2 pi
- **D** 3 π ÷ 2

Understand It with Pulse | Flag a mistake

23 **Ninety degrees, expressed in radians, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **One radian is about, in degrees,**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **For an angle of 0 degrees in standard position, cos of the angle to three decimal places is**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	0.866	**10.**	30	**19.**	0.707
2.	0.707	**11.**	30	**20.**	0
3.	A	**12.**	A	**21.**	A
4.	B	**13.**	45	**22.**	A
5.	C	**14.**	0.5	**23.**	1.57
6.	30	**15.**	1	**24.**	57.3
7.	30	**16.**	0.5	**25.**	1
8.	60	**17.**	0		
9.	60	**18.**	0.5		

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