SASKATCHEWAN PRE-CALCULUS 30 · UNIT A · 25 QUESTIONS

Trigonometric Functions, 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 **An angle coterminal with 30 degrees is**

- A -330°
- B 330°
- C 150°
- D 390°

Understand It with Pulse | Flag a mistake

2 **An angle of 120 degrees lies in quadrant**

A I

B III

C II

D IV

Understand It with Pulse | Flag a mistake

3 **For an angle of 270 degrees in standard position, sin theta is**

A 1

B $\sqrt{3}/2$

C -1/2

D -1

Understand It with Pulse | Flag a mistake

4 **The exact value of cos 45 degrees is**

- **A** -1
- **B** 1
- **C** $\frac{1}{2}$
- **D** $\sqrt{2}/2$

Understand It with Pulse | Flag a mistake

5 **The exact value of sin 120 degrees is**

- **A** $\sqrt{3}/2$
- **B** $-\sqrt{2}/2$
- **C** $\frac{1}{2}$
- **D** 1

Understand It with Pulse | Flag a mistake

6 **The exact value of tan 60 degrees is**

A $\sqrt{3}$

B $-\sqrt{3}$

C $-\sqrt{3}/3$

D 0

Understand It with Pulse | Flag a mistake

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

A 150°

B 60°

C 30°

D 90°

Understand It with Pulse | Flag a mistake

8 **Solve cos theta equals $\sqrt{3}/2$ for theta between 0 degrees and 90 degrees. Theta is**

- A 60°
- B 30°
- C 150°
- D 0°

Understand It with Pulse | Flag a mistake

9 **Solve sin theta equals $\frac{1}{2}$ for theta between 0 degrees and 90 degrees. Theta is**

- A 60°
- B 30°
- C 150°
- D 0°

Understand It with Pulse | Flag a mistake

10 **Solve sin theta equals $\sqrt{3}/2$ for theta between 0 degrees and 90 degrees. Theta is**

- A 30°
- B 60°
- C 120°
- D 0°

Understand It with Pulse | Flag a mistake

11 **The identity $\sin^2 \theta + \cos^2 \theta$ equals**

- A 0
- B 2
- C 1
- D $\sin \theta$

Understand It with Pulse | Flag a mistake

12 **An angle coterminal with 150 degrees is**

A 510°

B -210°

C 210°

D 30°

Understand It with Pulse | Flag a mistake

13 **An angle of 240 degrees lies in quadrant**

A I

B III

C II

D IV

Understand It with Pulse | Flag a mistake

14 For an angle of 0 degrees in standard position, sin theta is

- **A** 0
- **B** $-\sqrt{2}/2$
- **C** 1
- **D** $\frac{1}{2}$

Understand It with Pulse | Flag a mistake

15 The exact value of cos 150 degrees is

- **A** -1/2
- **B** $\frac{1}{2}$
- **C** 0
- **D** $-\sqrt{3}/2$

Understand It with Pulse | Flag a mistake

16 **The exact value of sin 150 degrees is**

A $-\sqrt{3}/2$

B -1

C $\frac{1}{2}$

D $\sqrt{3}/2$

Understand It with Pulse | Flag a mistake

17 **The exact value of tan 120 degrees is**

A $-\sqrt{3}$

B 1

C $-\sqrt{3}/3$

D $\sqrt{3}$

Understand It with Pulse | Flag a mistake

18 **The reference angle for 200 degrees is**

- A 200°
- B 20°
- C 70°
- D 90°

Understand It with Pulse | Flag a mistake

19 **An angle coterminal with 60 degrees is**

- A 420°
- B -300°
- C 300°
- D 120°

Understand It with Pulse | Flag a mistake

20 An angle of 250 degrees lies in quadrant

A III

B I

C II

D IV

Understand It with Pulse | Flag a mistake

21 For an angle of 90 degrees in standard position, sin theta is

A $\sqrt{3}/2$

B $-\sqrt{3}/2$

C 0

D 1

Understand It with Pulse | Flag a mistake

22 **The exact value of cos 135 degrees is**

- A -1
- B 1
- C $\sqrt{3}/2$
- D $-\sqrt{2}/2$

Understand It with Pulse | Flag a mistake

23 **The exact value of sin 135 degrees is**

- A 1
- B $-\sqrt{2}/2$
- C $\sqrt{2}/2$
- D $\sqrt{3}/2$

Understand It with Pulse | Flag a mistake

24 The exact value of tan 150 degrees is

A $-\sqrt{3}/3$

B 1

C $\sqrt{3}$

D $\sqrt{3}/3$

Understand It with Pulse | Flag a mistake

25 The reference angle for 300 degrees is

A 60°

B 300°

C 30°

D 90°

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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