SASKATCHEWAN PRE-CALCULUS 20 · UNIT B · 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 An angle of 330 degrees lies in quadrant

- A IV
- B I
- C II
- D III

Understand It with Pulse | Flag a mistake

2 The value of sin 30 degrees is

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

Understand It with Pulse | Flag a mistake

3 **A triangle has sides 3 and 10 with an included angle of 60 degrees. The third side is approximately**

- **A** 9.9
- **B** 7.9
- **C** 8.9
- **D** 13

Understand It with Pulse | Flag a mistake

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

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

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5 **A triangle has sides 4 and 7 with an included angle of 60 degrees. The third side is approximately**

A 6.1

B 7.1

C 5.1

D 11

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

A I

B III

C II

D IV

Understand It with Pulse | Flag a mistake

7 **The value of sin 150 degrees is**

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

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8 **In a triangle , side a = 30 , angle A = 30 degrees and angle B = 60 degrees . Side b is approximately**

- A 54
- B 50
- C 30
- D 52

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9 **A triangle has sides 7 and 9 with an included angle of 60 degrees. The third side is approximately**

- A 8.2
- B 9.2
- C 7.2
- D 16

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10 **In a triangle , side a = 10 , angle A = 45 degrees and angle B = 30 degrees . Side b is approximately**

- A 9.1
- B 7.1
- C 5.1
- D 10

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11 **An angle of 210 degrees lies in quadrant**

A I

B II

C III

D IV

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12 **A triangle has sides 6 and 8 with an included angle of 60 degrees. The third side is approximately**

A 7.2

B 8.2

C 6.2

D 14

Understand It with Pulse | Flag a mistake

13 **In a triangle , side a = 30 , angle A = 60 degrees and angle B = 45 degrees . Side b is approximately**

A 24.5

B 26.5

C 22.5

D 30

Understand It with Pulse | Flag a mistake

14 **An angle of 120 degrees is coterminal with**

A 480°

B -240°

C 240°

D 120°

Understand It with Pulse | Flag a mistake

15 **In a triangle , side a = 10 , angle A = 30 degrees and angle B = 60 degrees . Side b is approximately**

A 19.3

B 15.3

C 17.3

D 10

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16 **An angle of 290 degrees is coterminal with**

A 650°

B 70°

C 290°

D -70°

Understand It with Pulse | Flag a mistake

17 **The reference angle for 300 degrees is**

A 60°

B 300°

C 120°

D 90°

Understand It with Pulse | Flag a mistake

18 **In a triangle , side a = 10 , angle A = 60 degrees and angle B = 30 degrees . Side b is approximately**

A 7.8

B 5.8

C 3.8

D 10

Understand It with Pulse | Flag a mistake

19 **In a triangle , side a = 25 , angle A = 30 degrees and angle B = 60 degrees . Side b is approximately**

- A 45.3
- B 41.3
- C 43.3
- D 25

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20 **In a triangle , side a = 25 , angle A = 45 degrees and angle B = 60 degrees . Side b is approximately**

- A 32.6
- B 28.6
- C 25
- D 30.6

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21 **In a triangle , side a = 15 , angle A = 45 degrees and angle B = 30 degrees . Side b is approximately**

A 10.6

B 12.6

C 8.6

D 15

Understand It with Pulse | Flag a mistake

22 **An angle of 80 degrees is coterminal with**

A 440°

B -280°

C 280°

D 80°

Understand It with Pulse | Flag a mistake

23 **The value of sin 120 degrees is**

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

Understand It with Pulse | Flag a mistake

24 **In a triangle , side a = 30 , angle A = 60 degrees and angle B = 30 degrees . Side b is approximately**

- **A** 19.3
- **B** 15.3
- **C** 30
- **D** 17.3

Understand It with Pulse | Flag a mistake

25 **In a triangle , side a = 15 , angle A = 30 degrees and angle B = 45 degrees . Side b is approximately**

A 21.2

B 23.2

C 19.2

D 15

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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